THE

CONTRACT JOURNAL

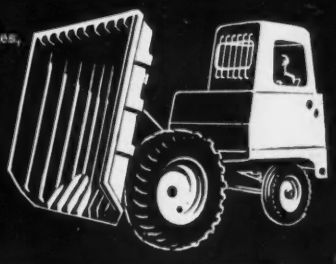
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now in the new optional colour

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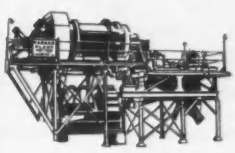
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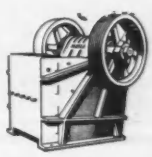
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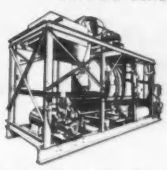




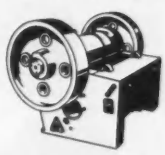
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40" x 32 "'ROCK-SLEDGER' CRUSHER



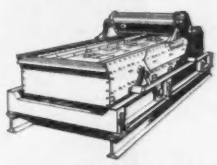
BATCH DRYER & PADDLE MIXER



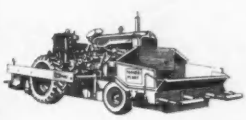
'STONE-SIZER' GRANULATOR



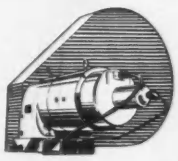
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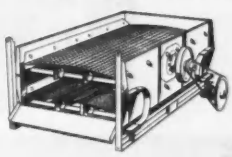
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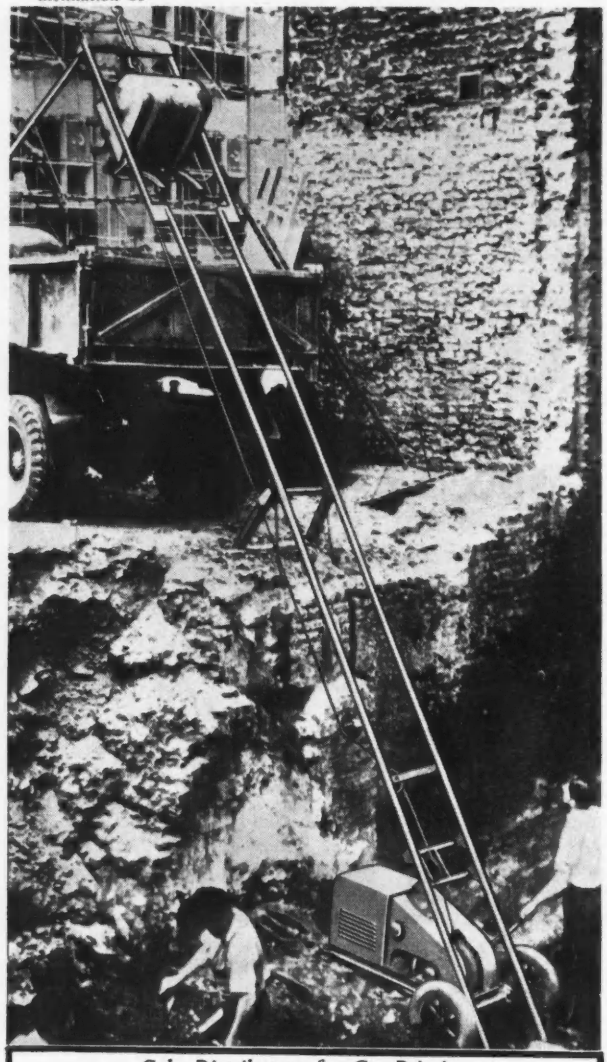
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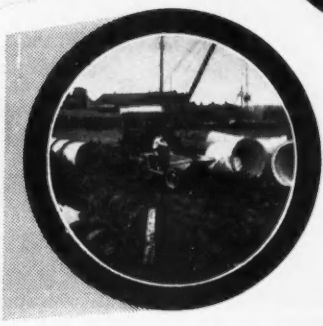
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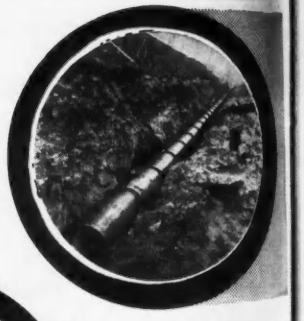
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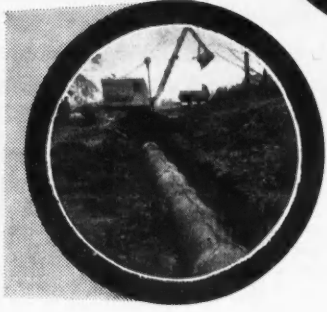
"POULTON" MAIN DRAINAGE CONTRACT for the Poulton-le-Fylde U.D.C. Engineer: T. D. Manning, M.I.Mun.E., M.R.S.H. Contractors: M. R. Q. Construction Co. Ltd.



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"WALSALL" MAIN DRAINAGE CONTRACT for Sutton Road Relief Sewer. Borough Engineer: M. E. Habershon, O.B.E., M.Eng., M.I.C.E., M.I.Mun.E. Contractors: William Kendrick & Sons Ltd.

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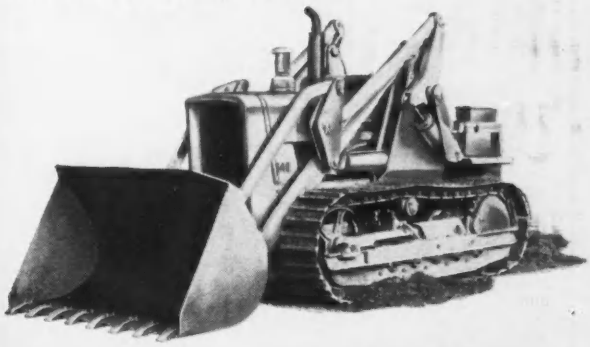
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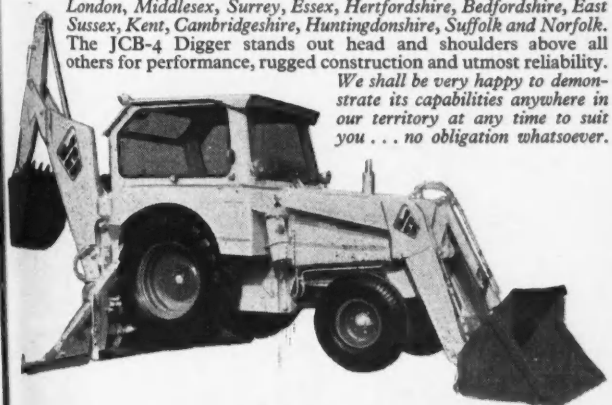
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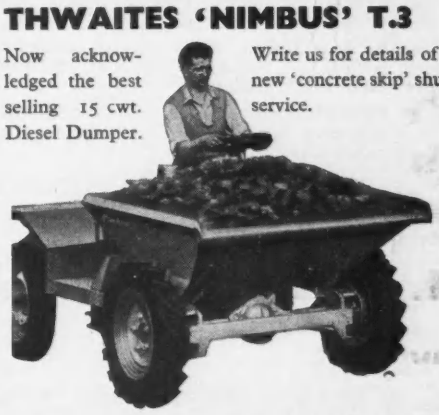
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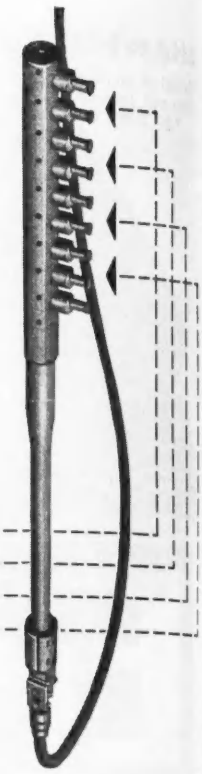
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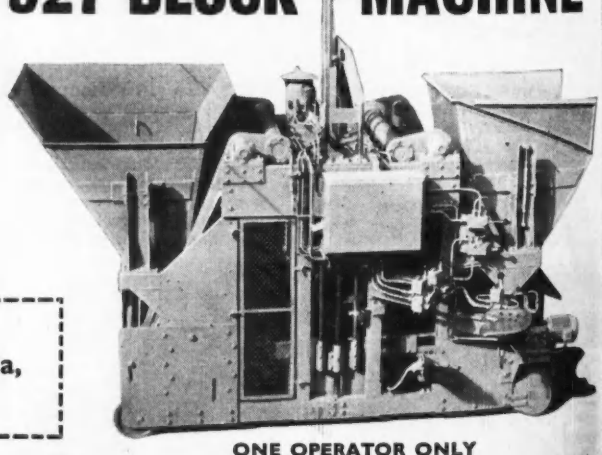
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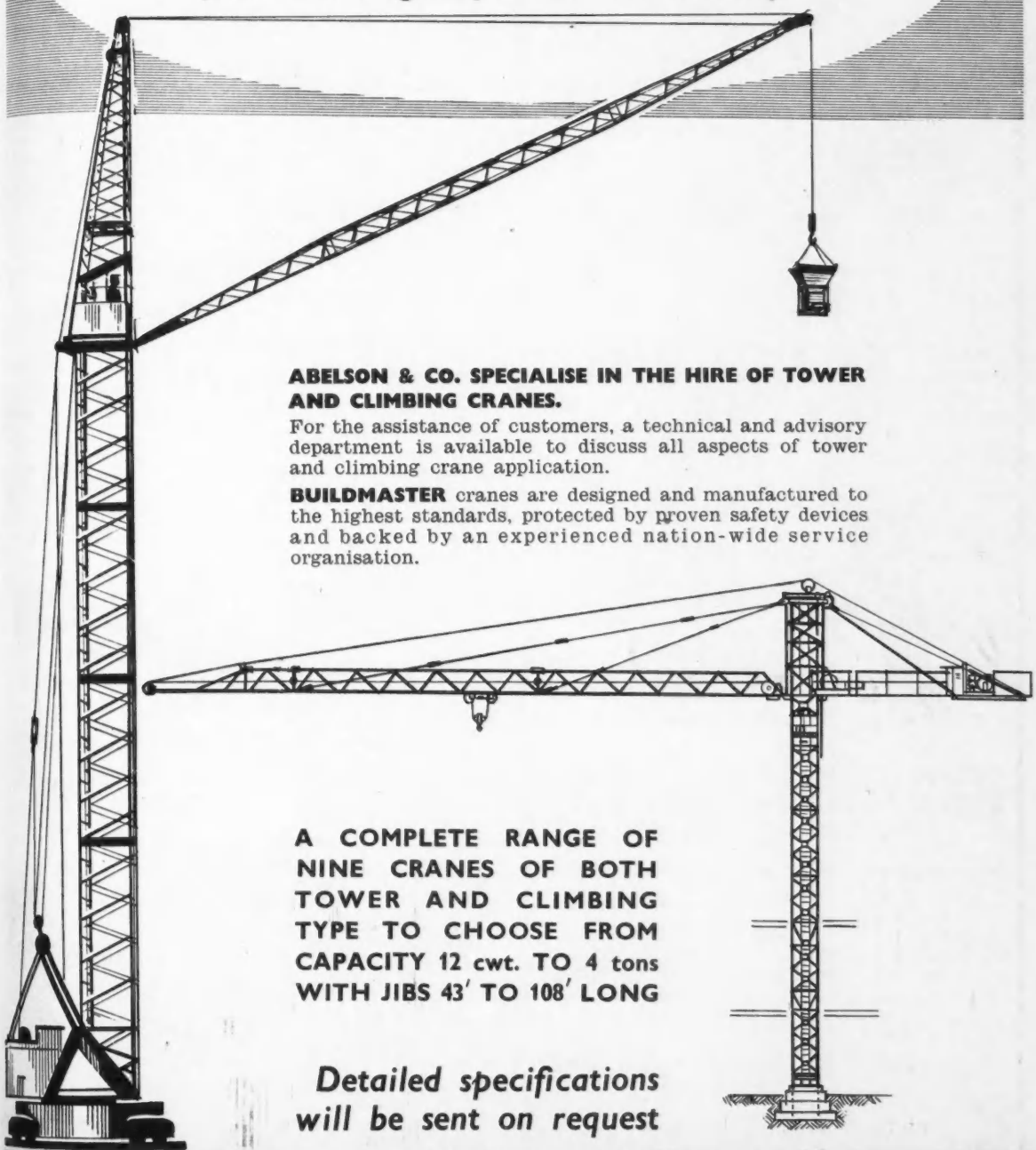
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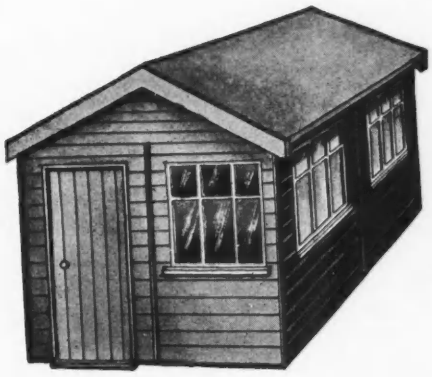
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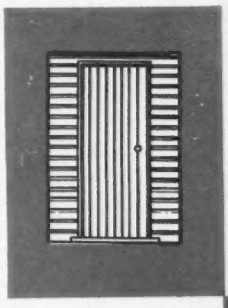


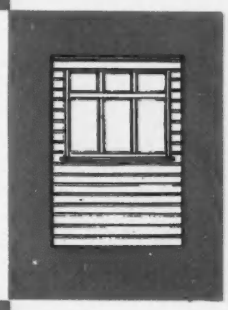
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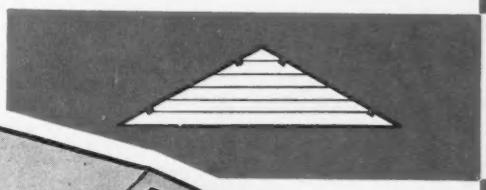
for 10ft and 14ft 9in width buildings



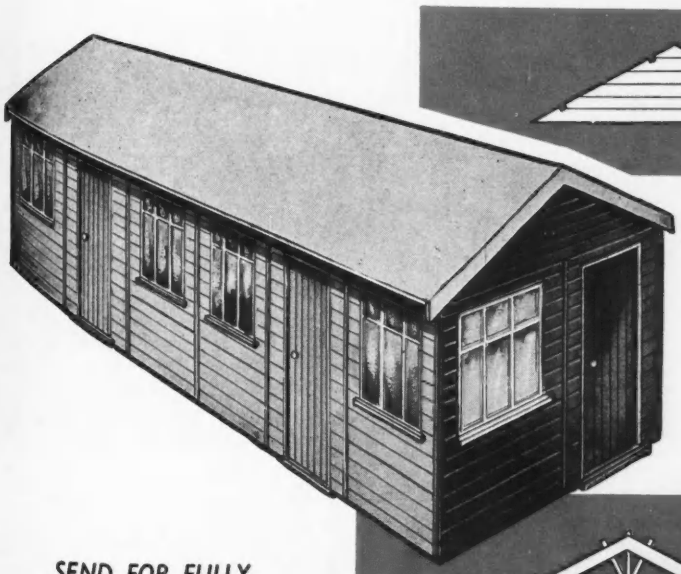


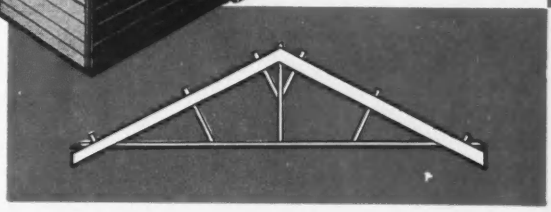


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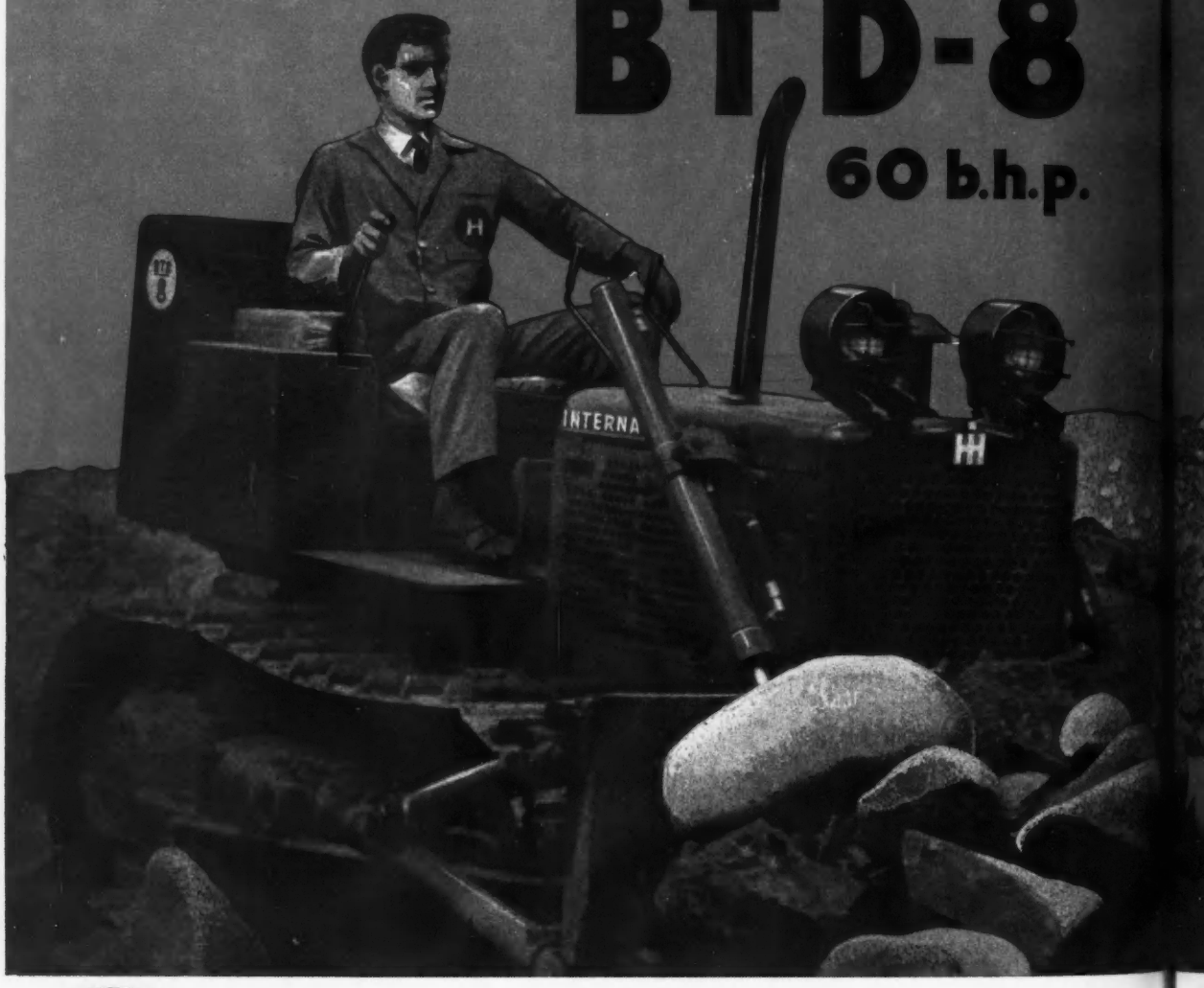
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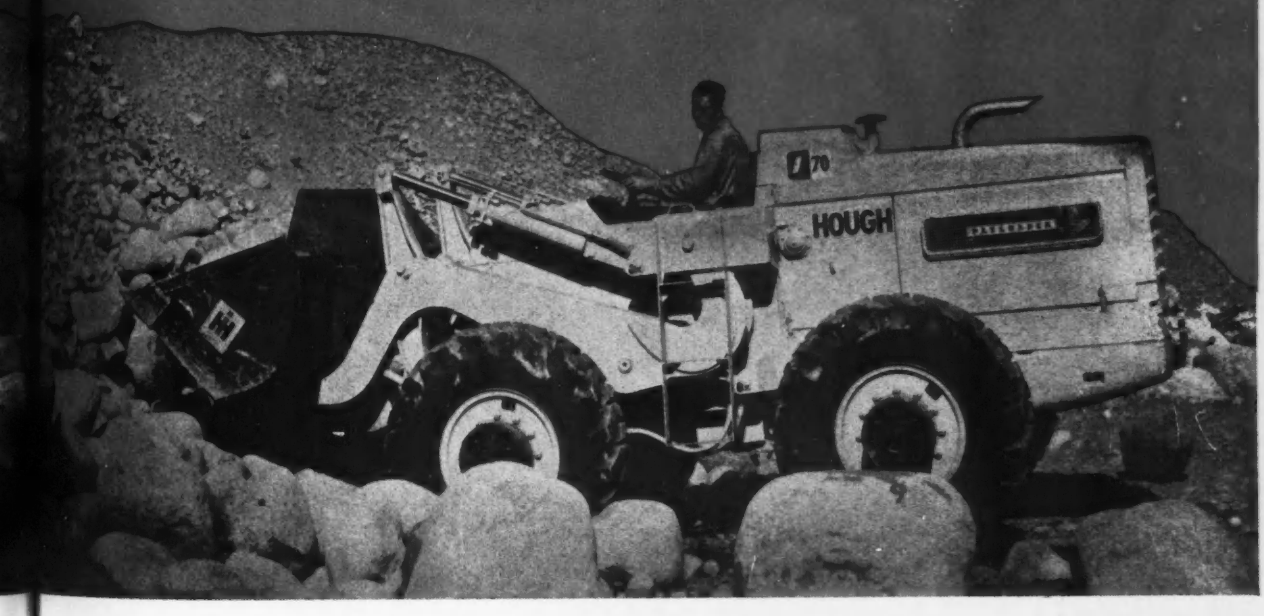
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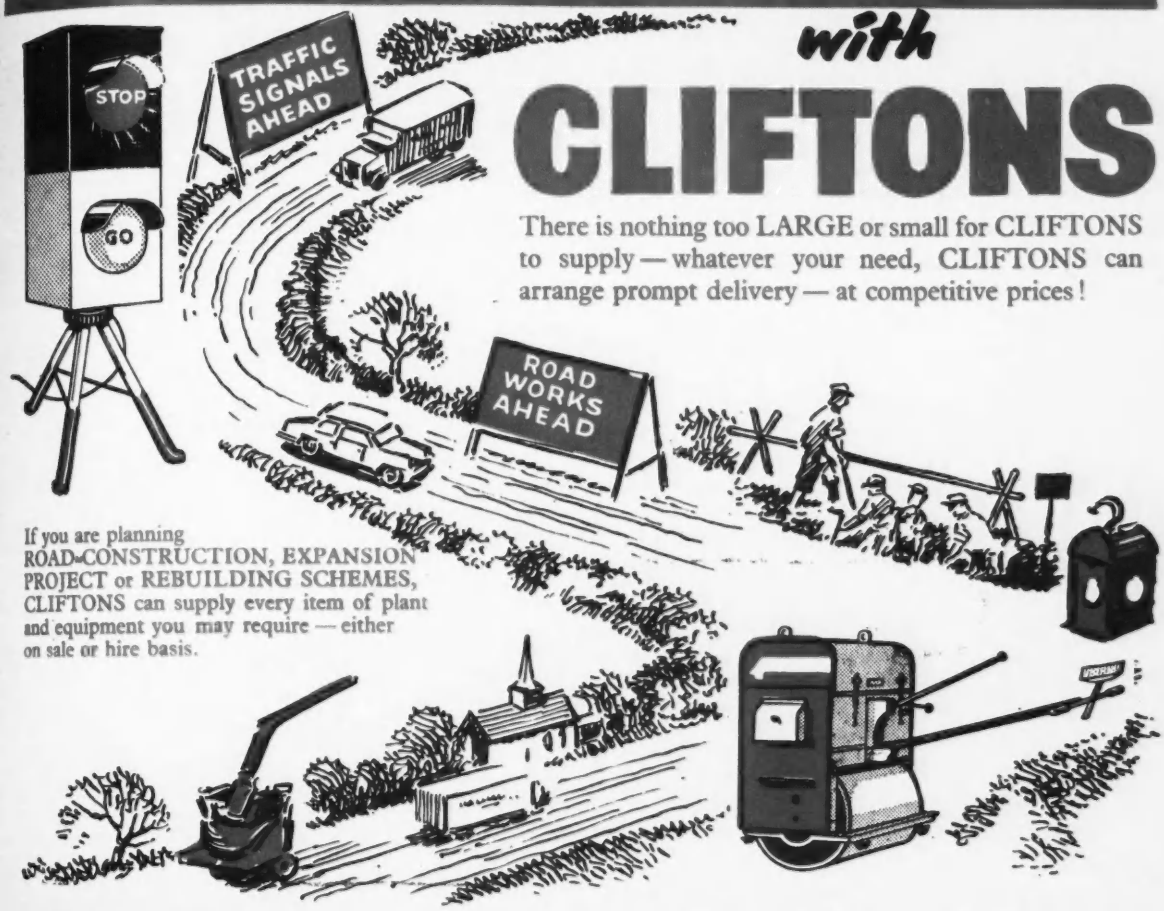
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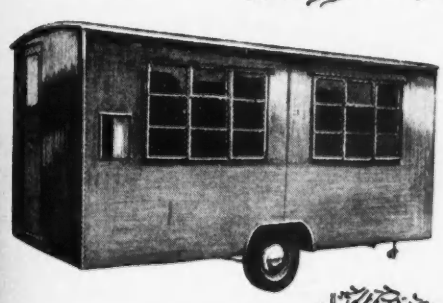
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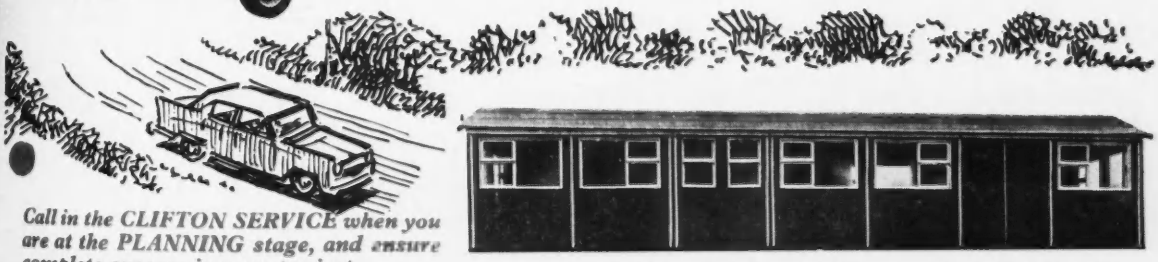
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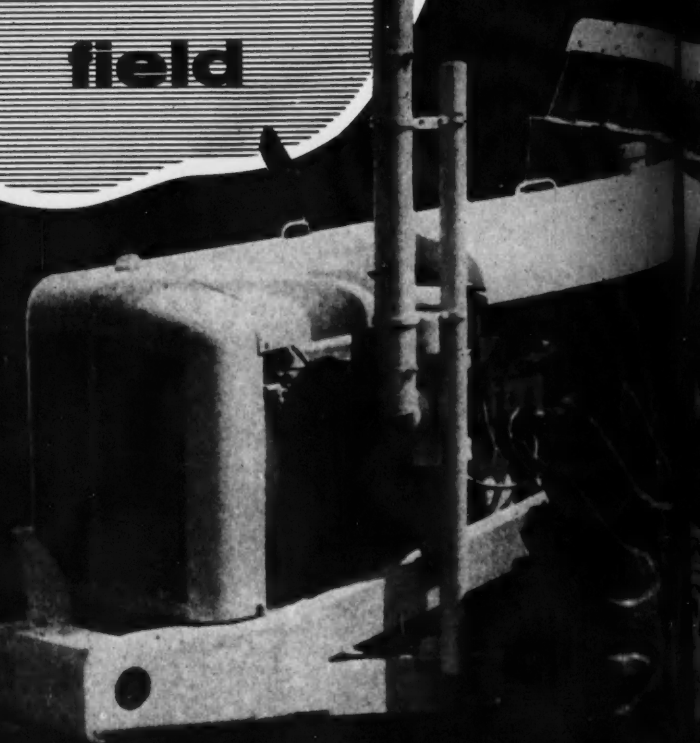
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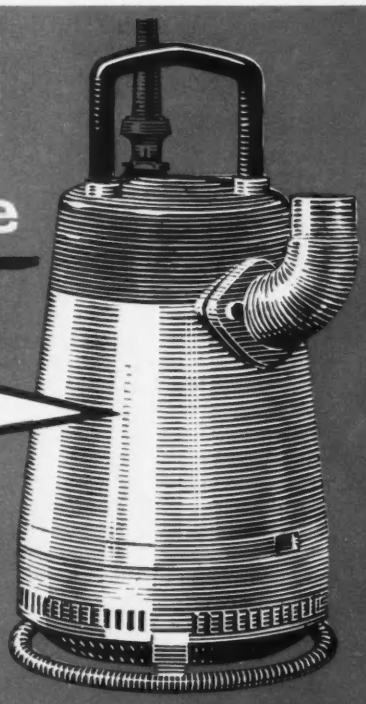
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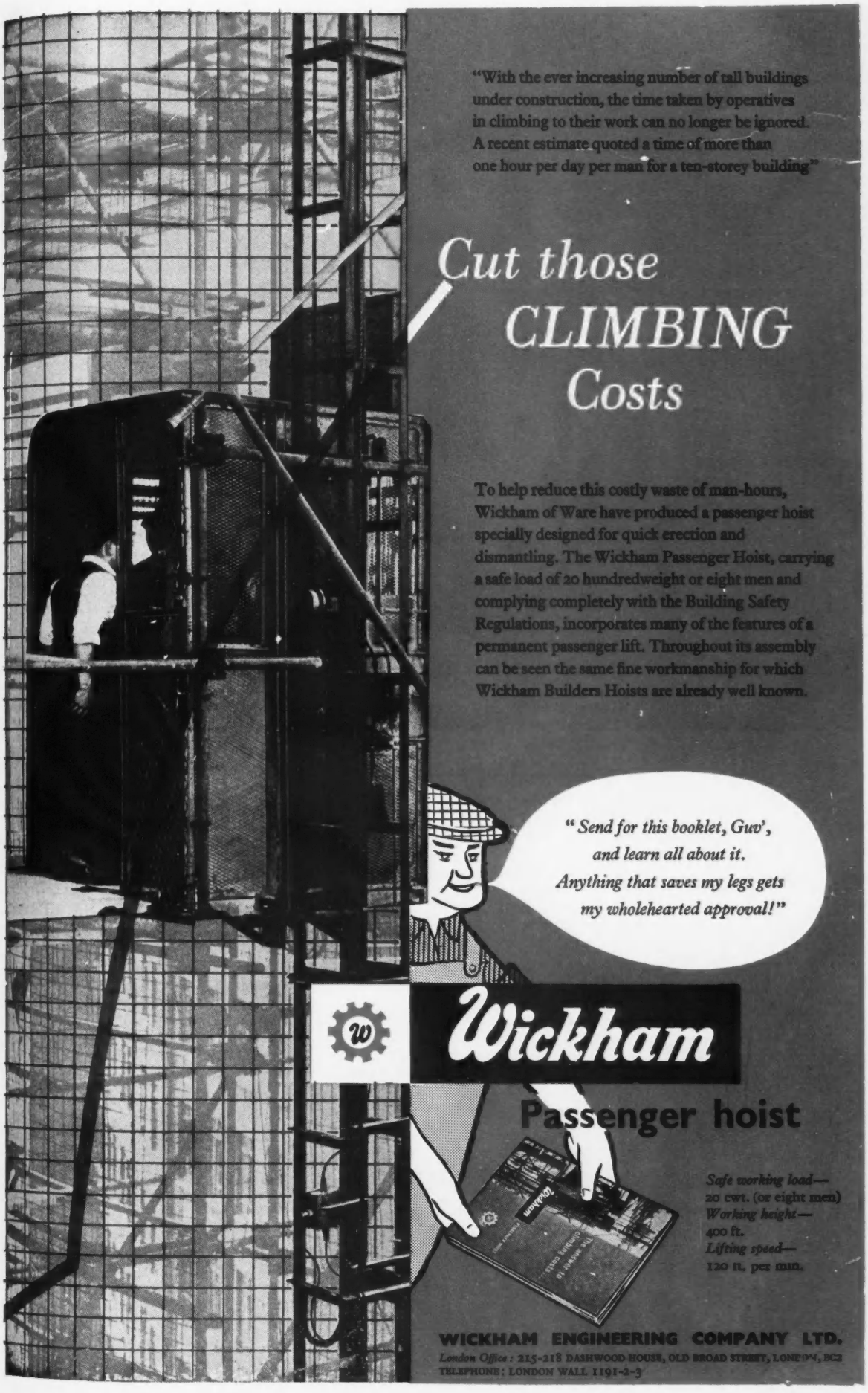
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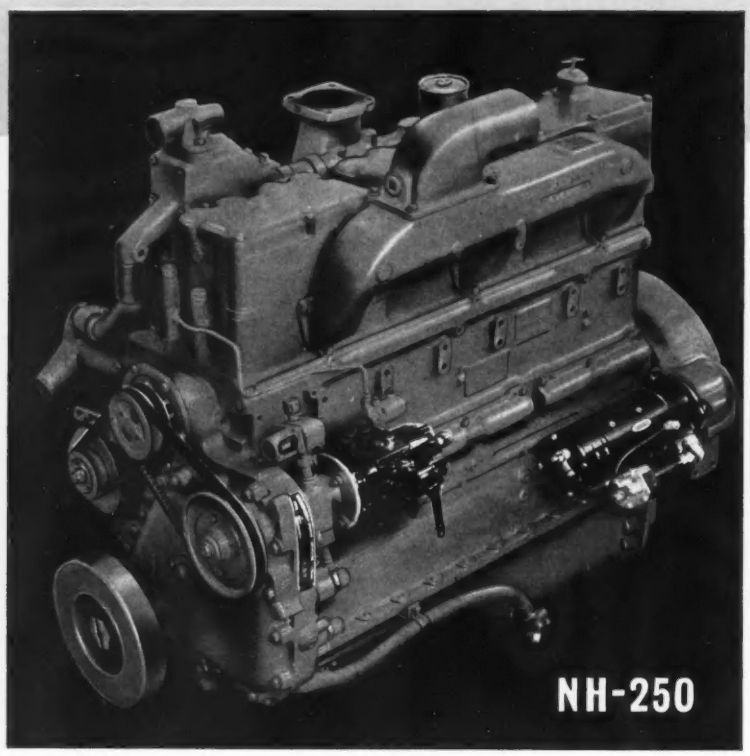
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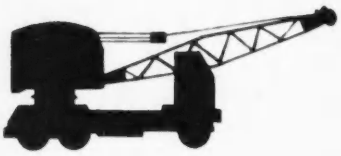
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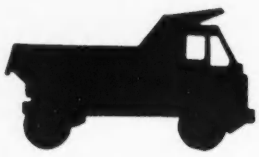
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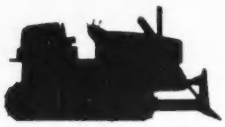
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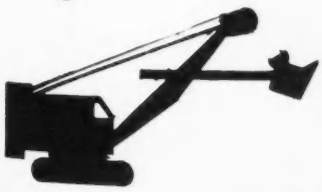
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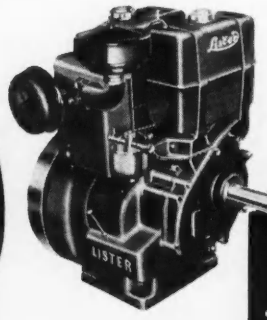






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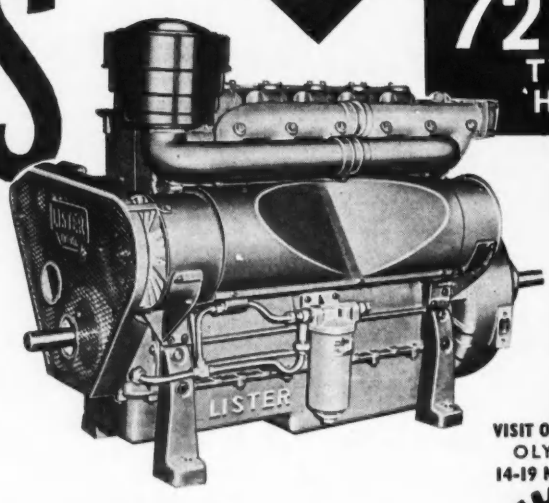
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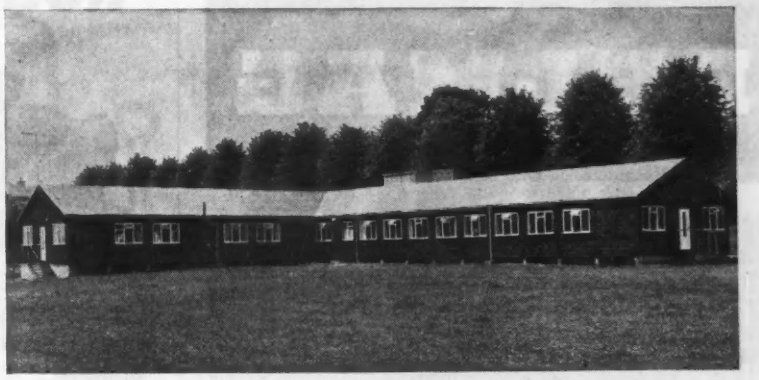
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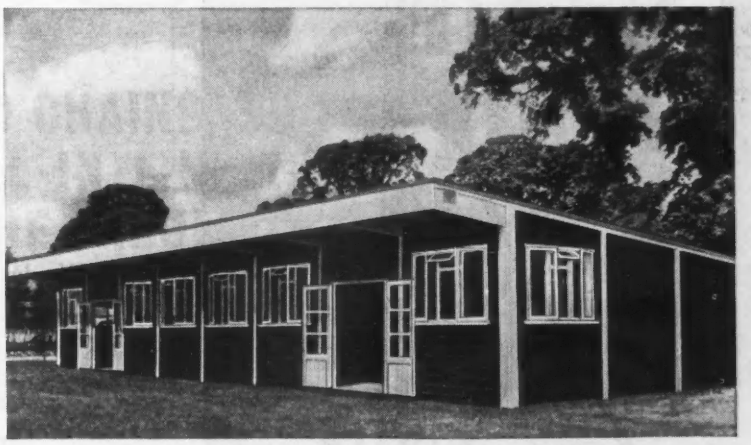
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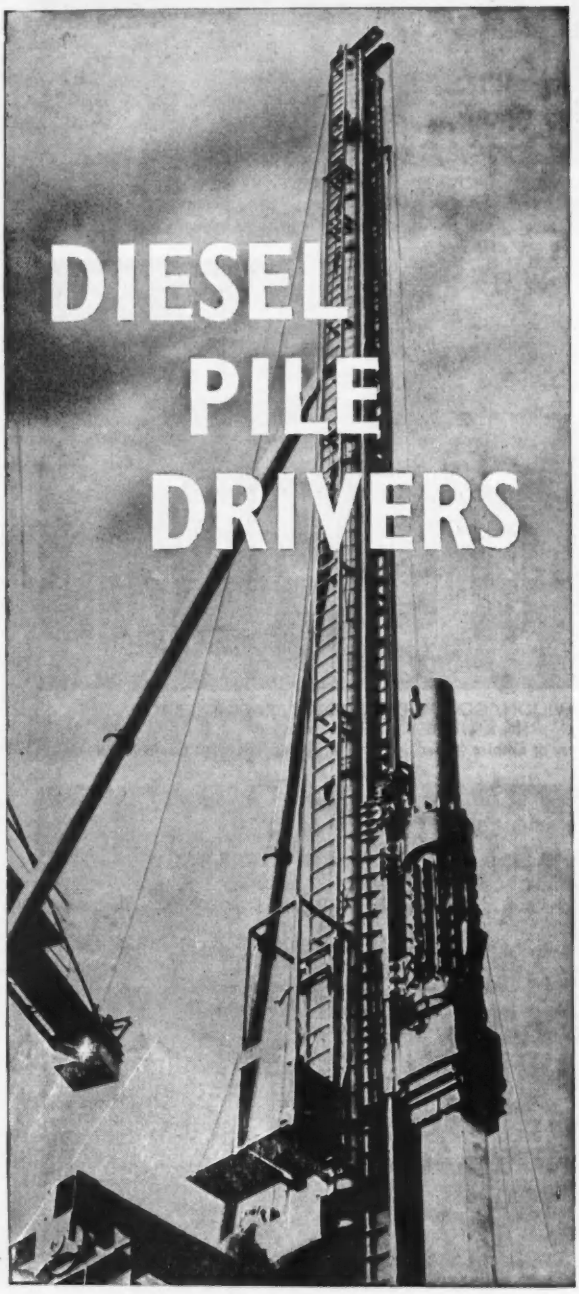
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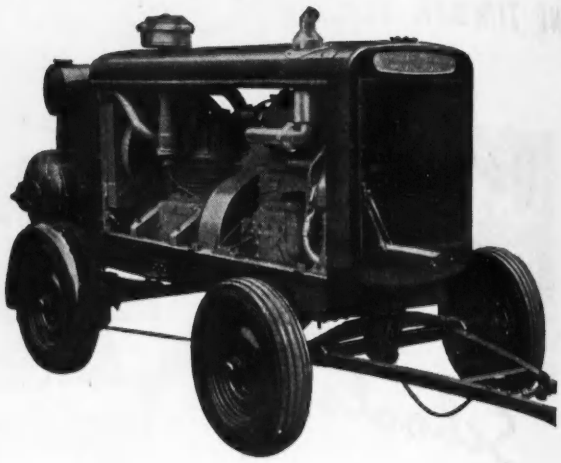
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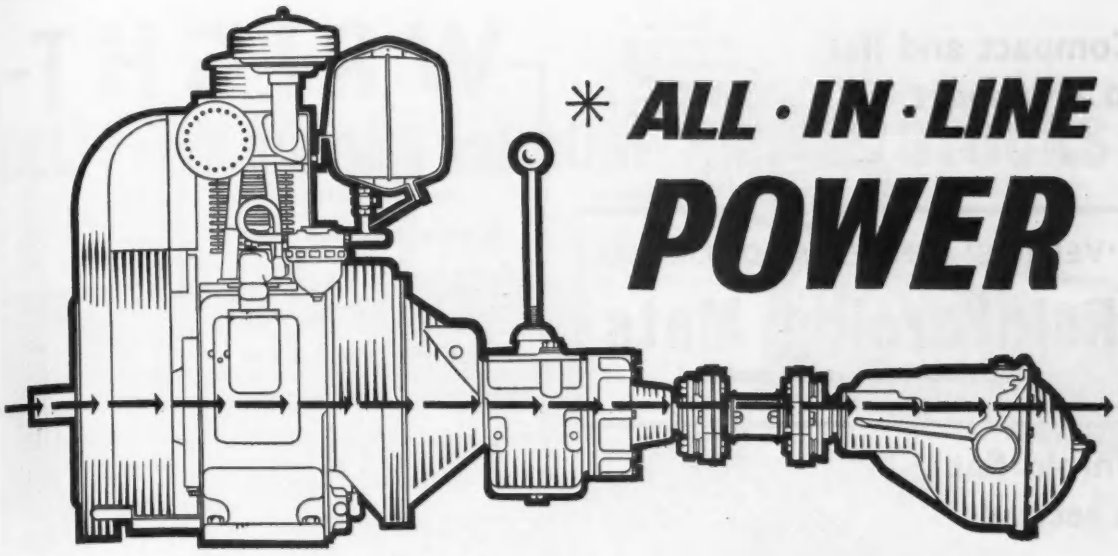
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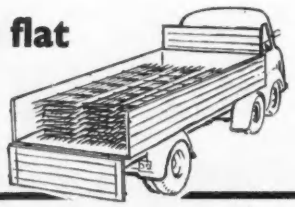
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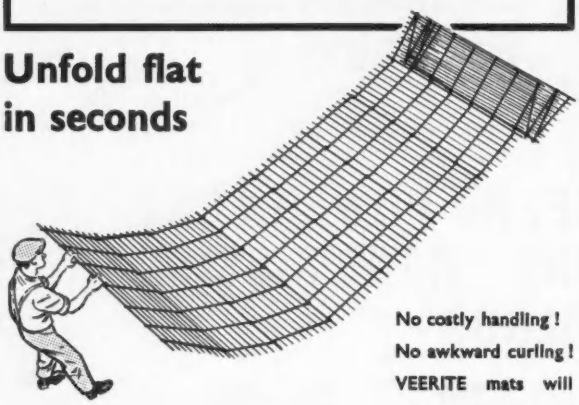


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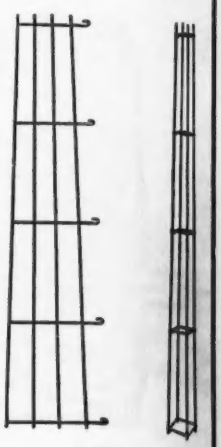
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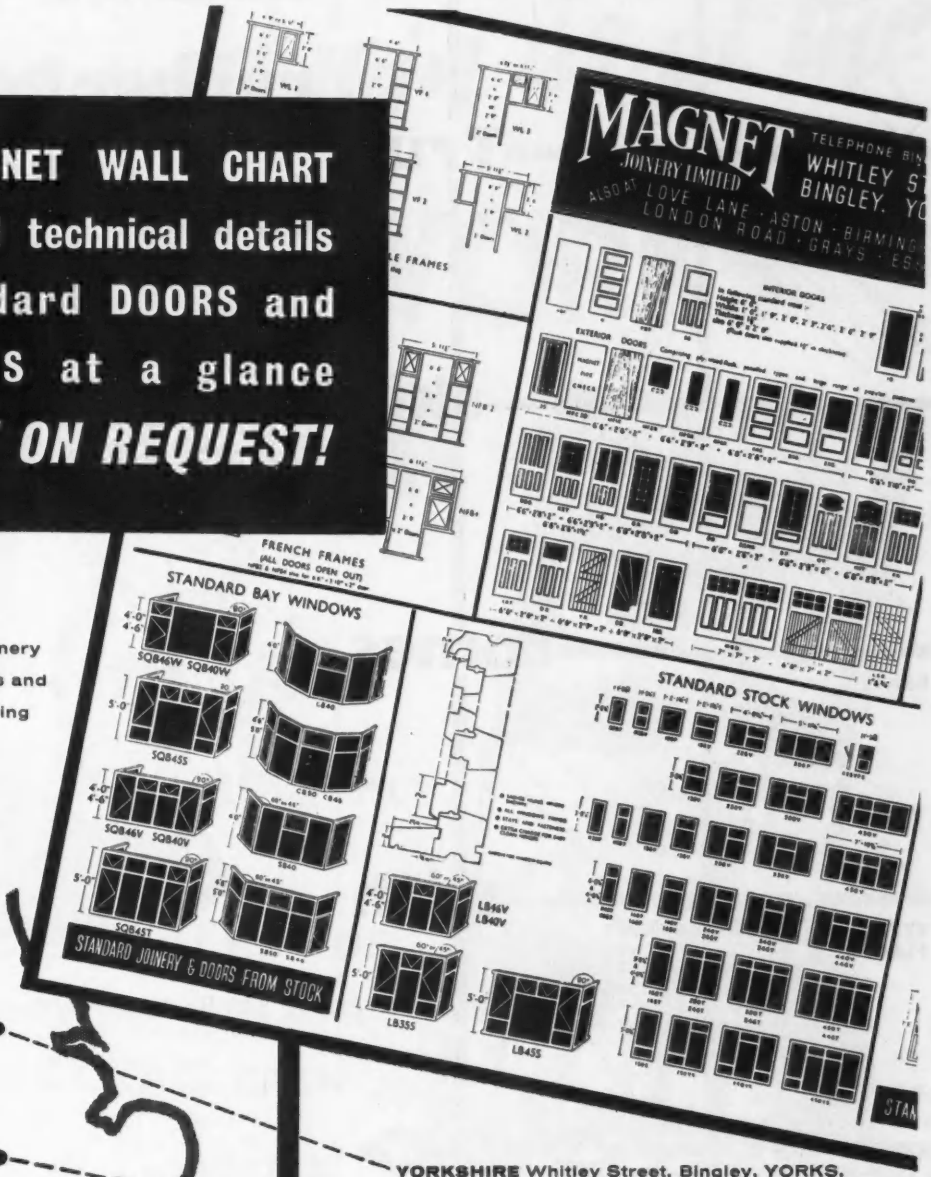
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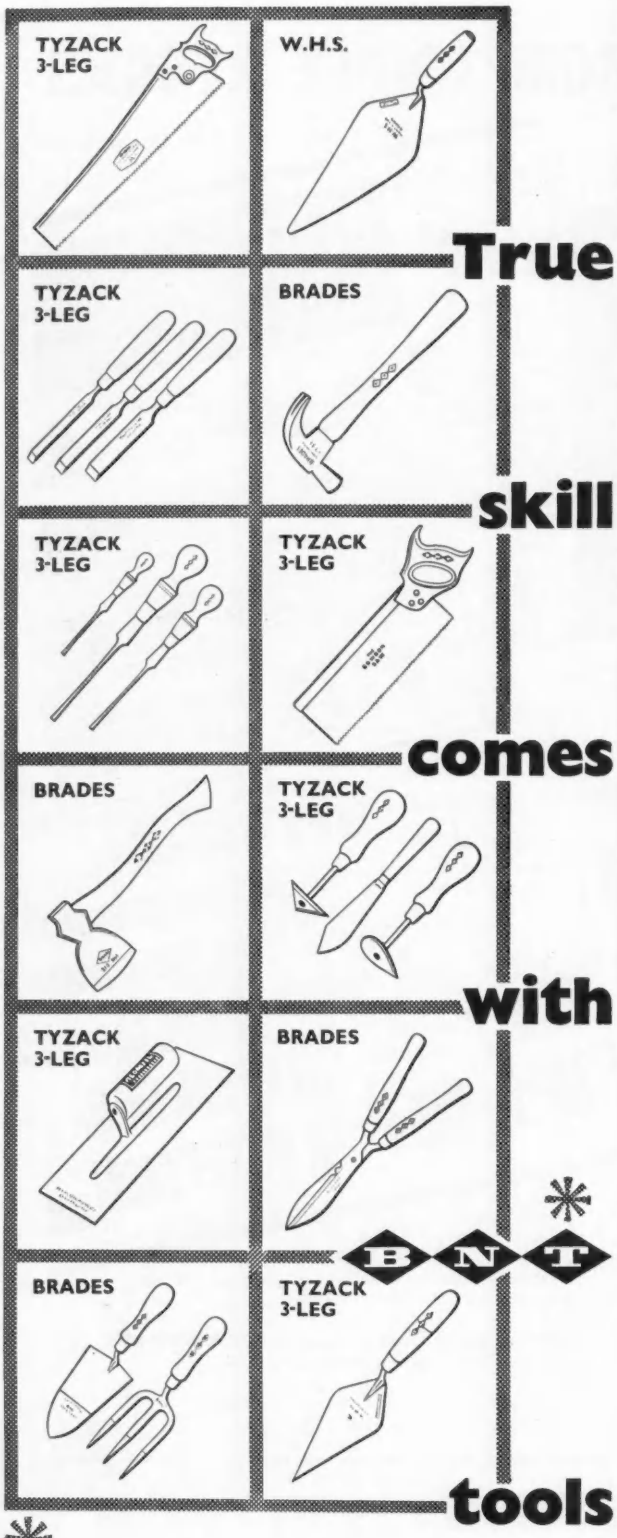
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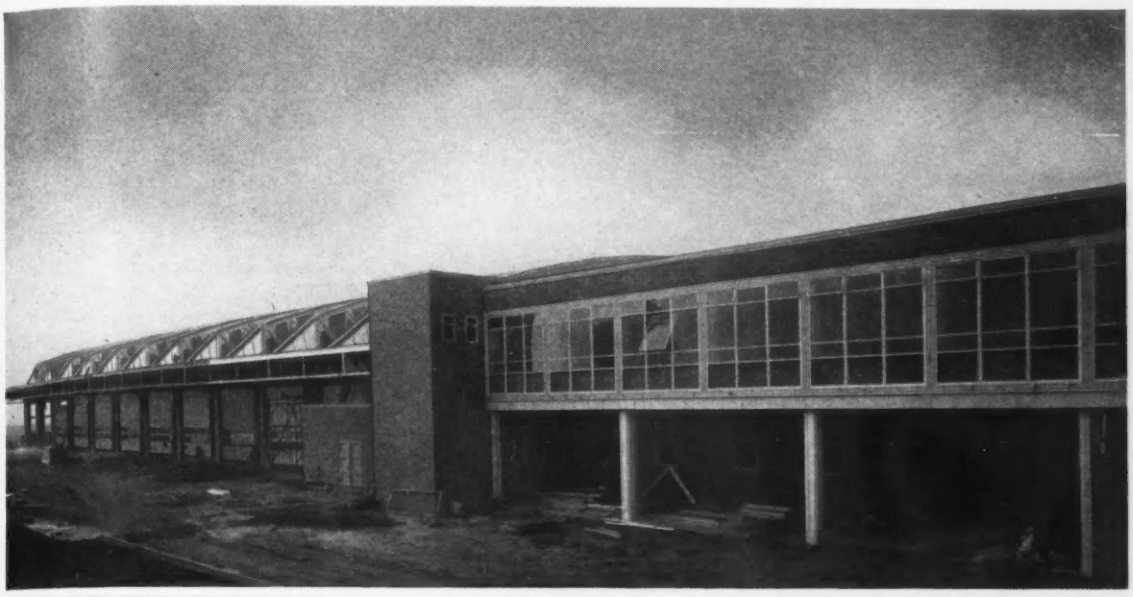
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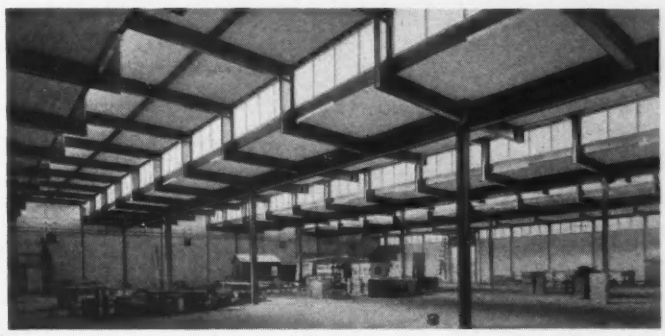
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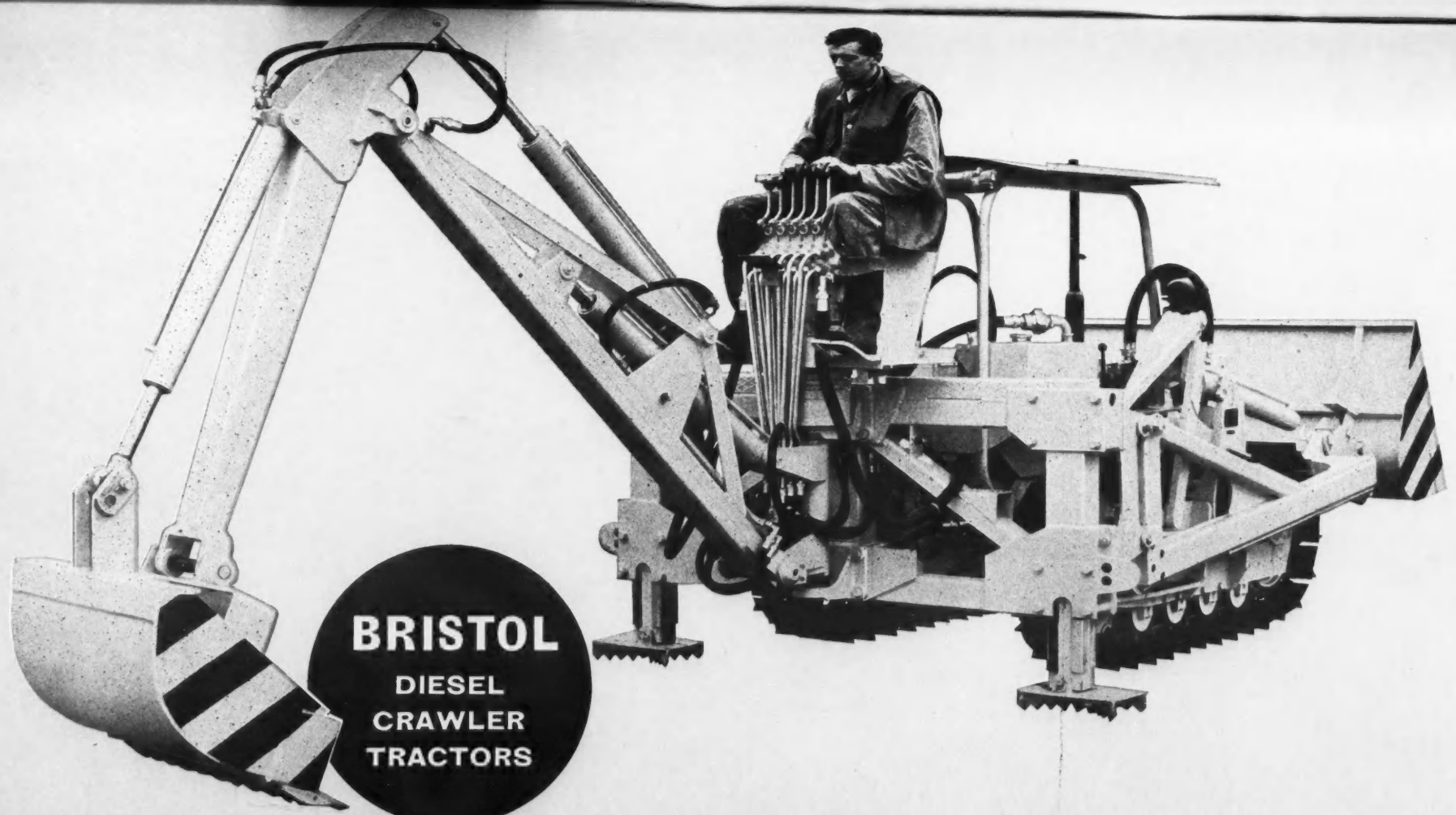
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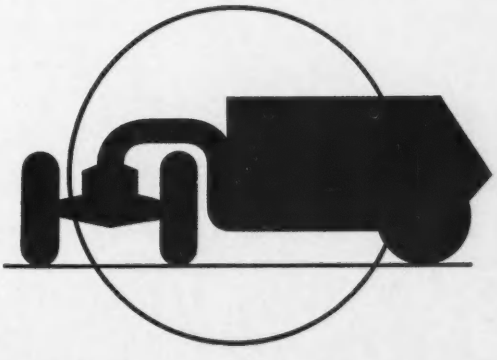
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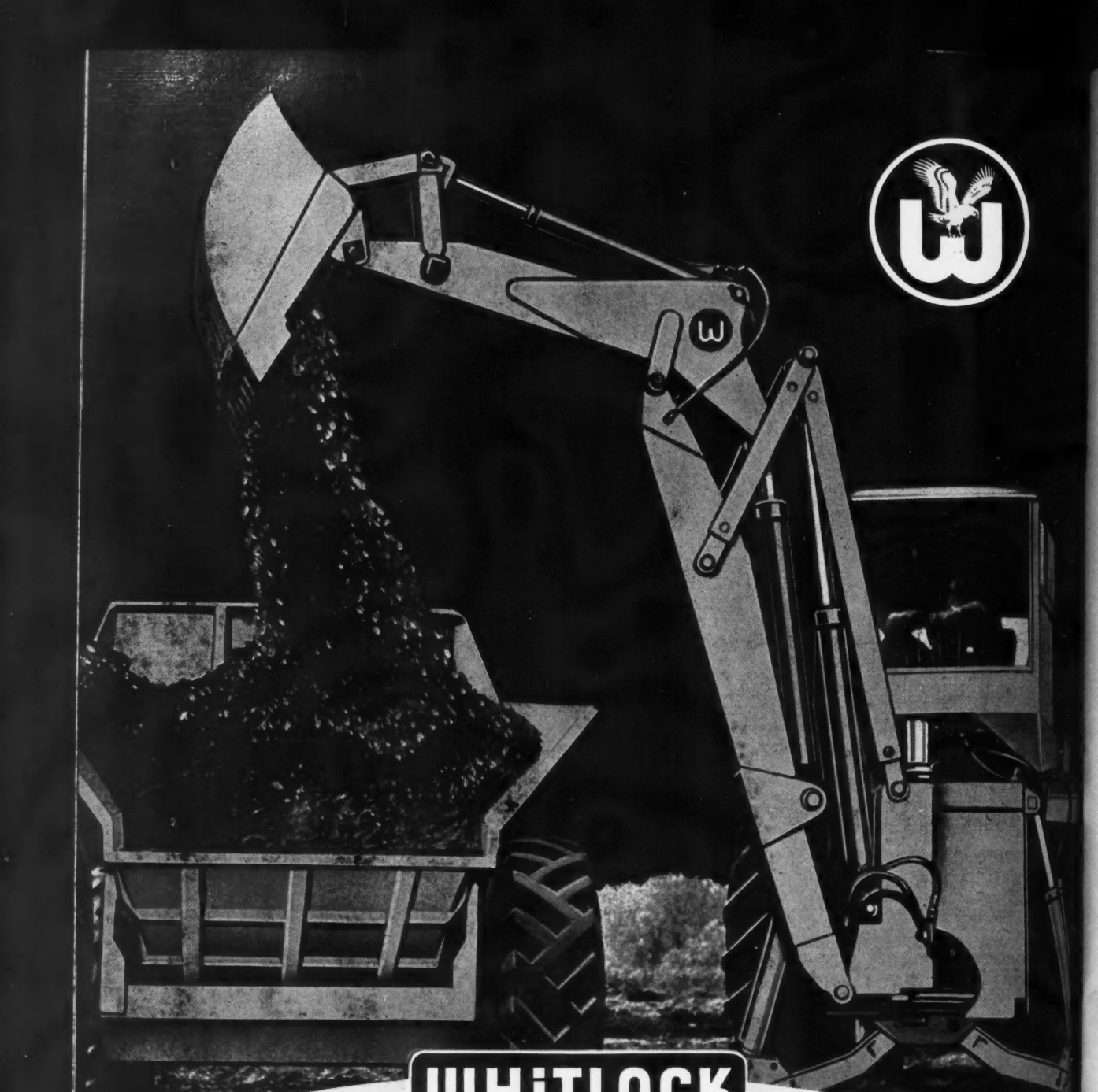
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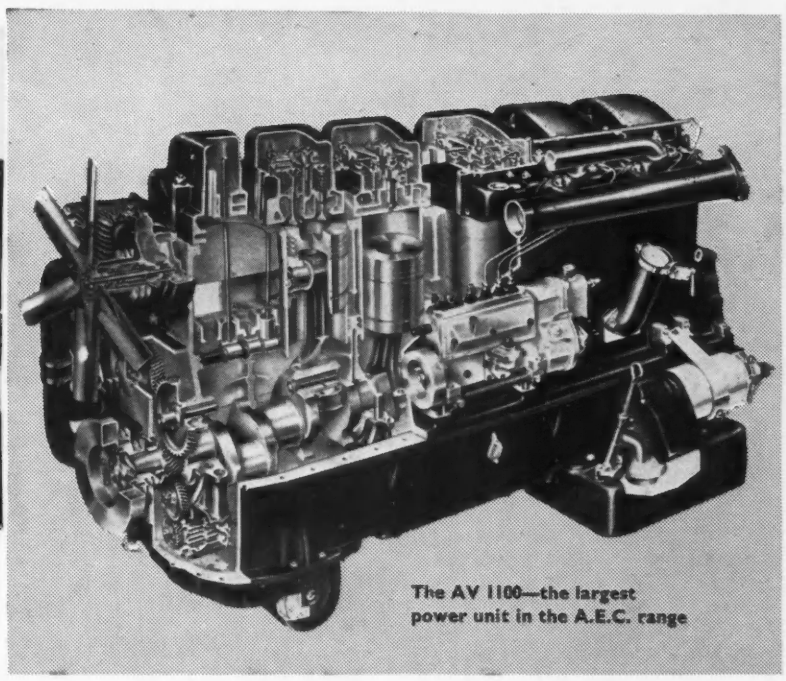
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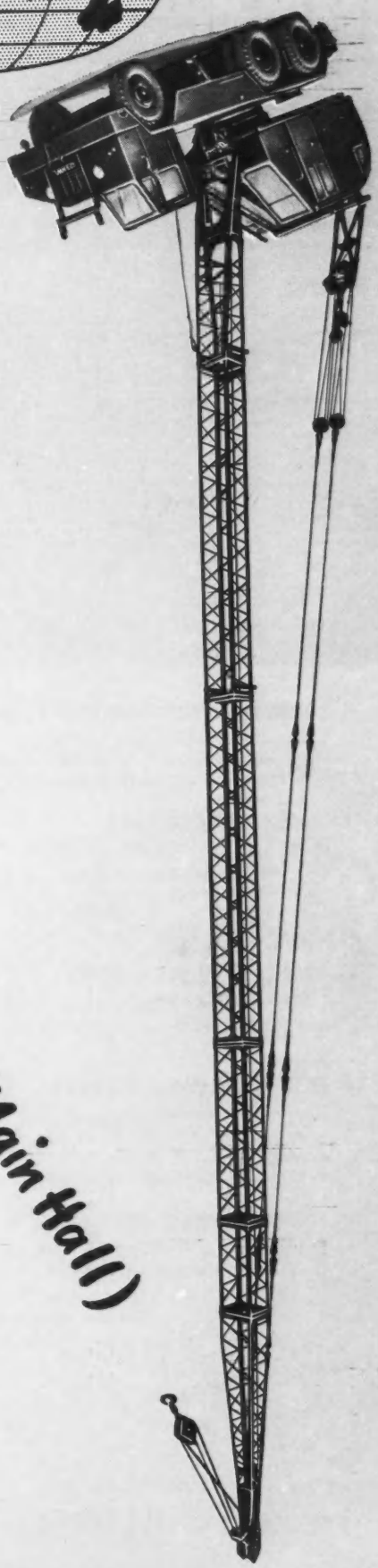
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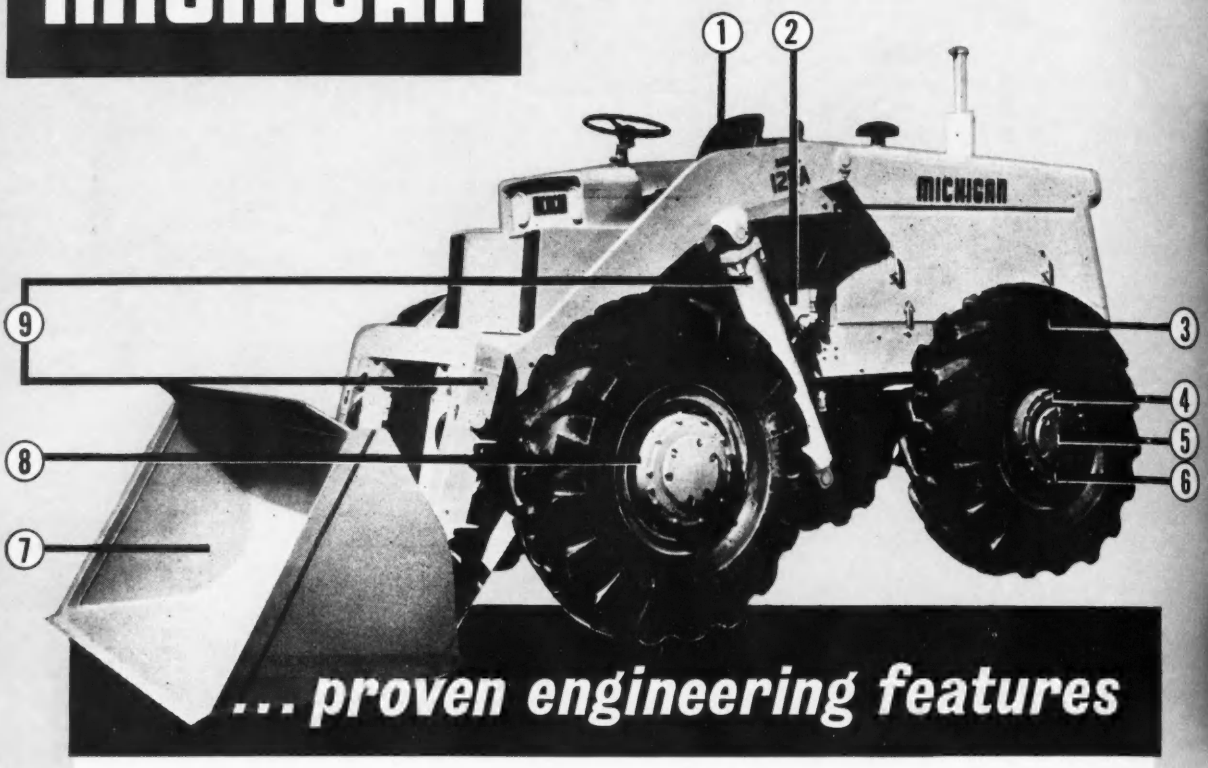
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1

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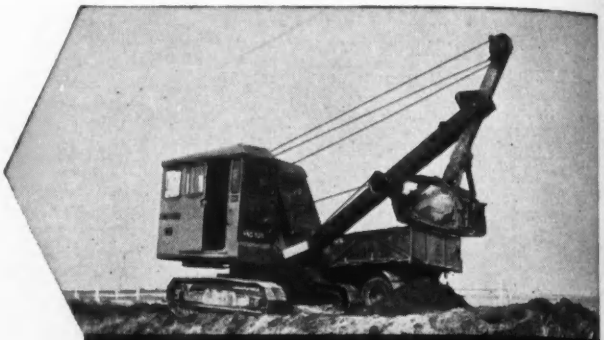
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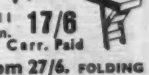


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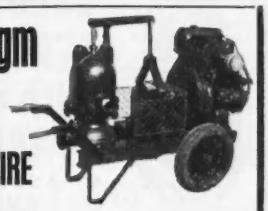
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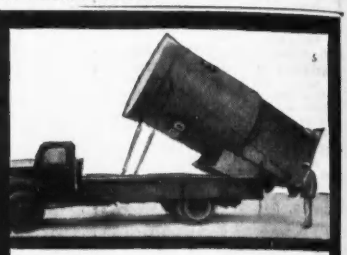
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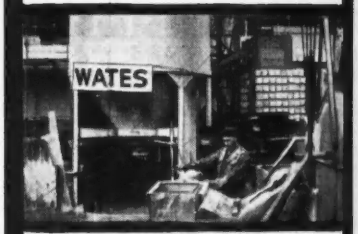
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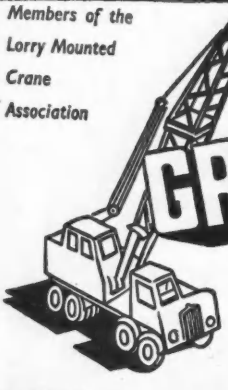
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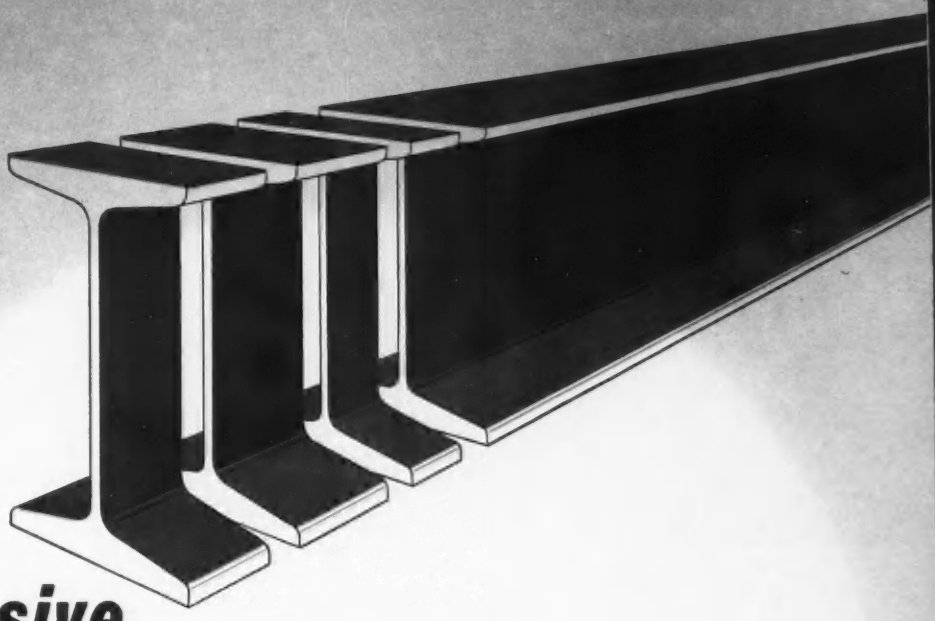


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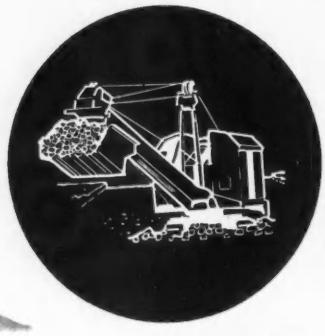
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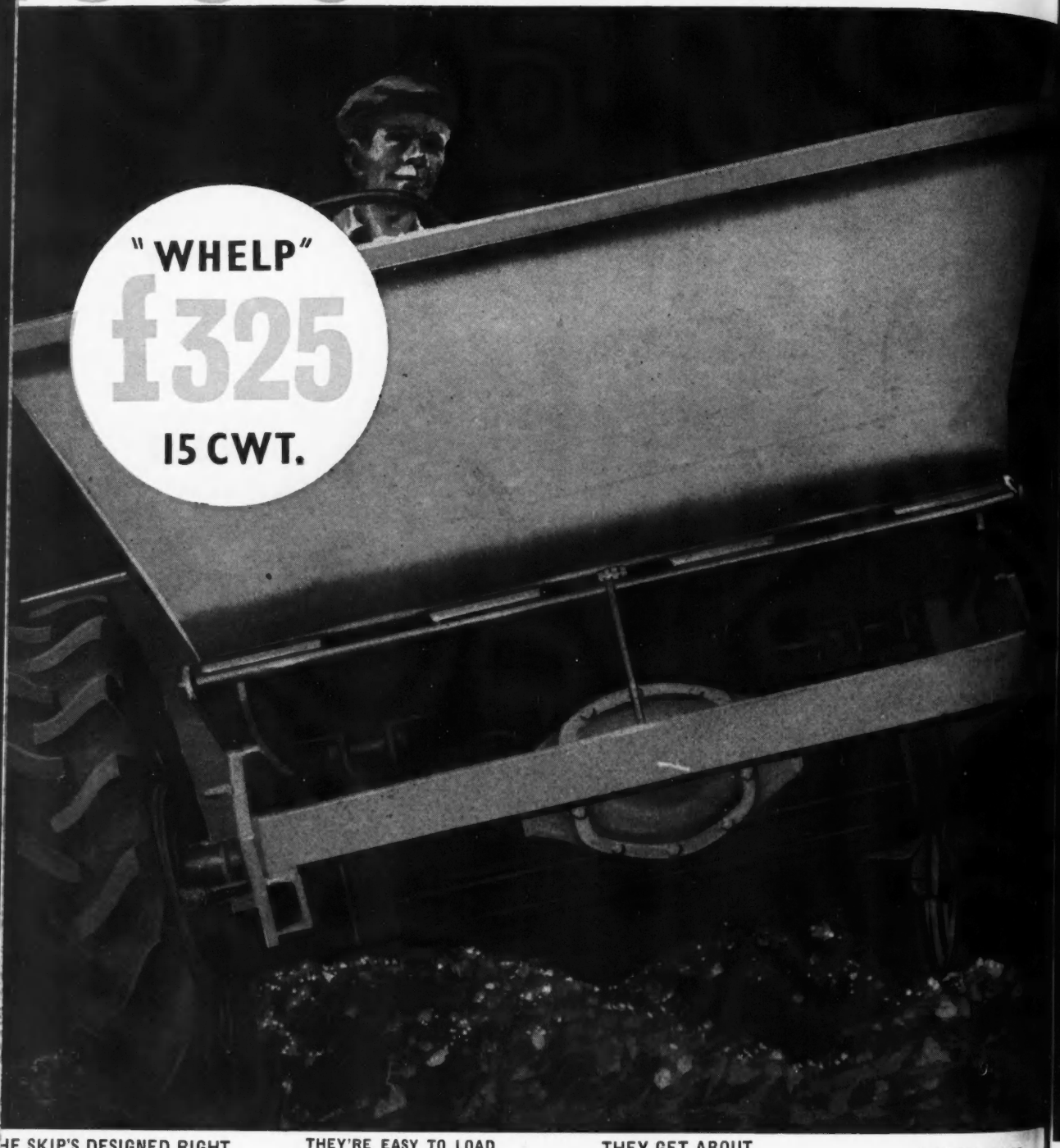
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5 cwt. Whelp • 18 cu. ft. struck
½ cwt. Cub • • 22 cu. ft. struck
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THEY'RE EASY TO LOAD

Low loading height for ease of charging under mixer or by hand There is no spillage loading the improved RoadMac dumpers.

15 cwt Whelp 3'1",
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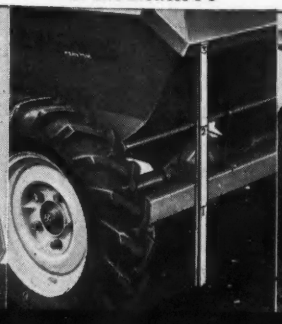
Save precious time charging, travelling, dumping on busy road and congested site. RoadMac improved dumpers are more manœuvrable

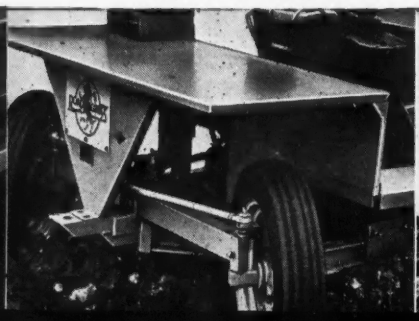
Turning Radius: 15 cwt. Whelp 7'9"
22½ cwt. Cub 7'9"
30 cwt. Lioness 10'0"

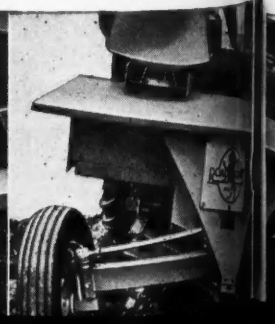
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West Drayton, Middlesex

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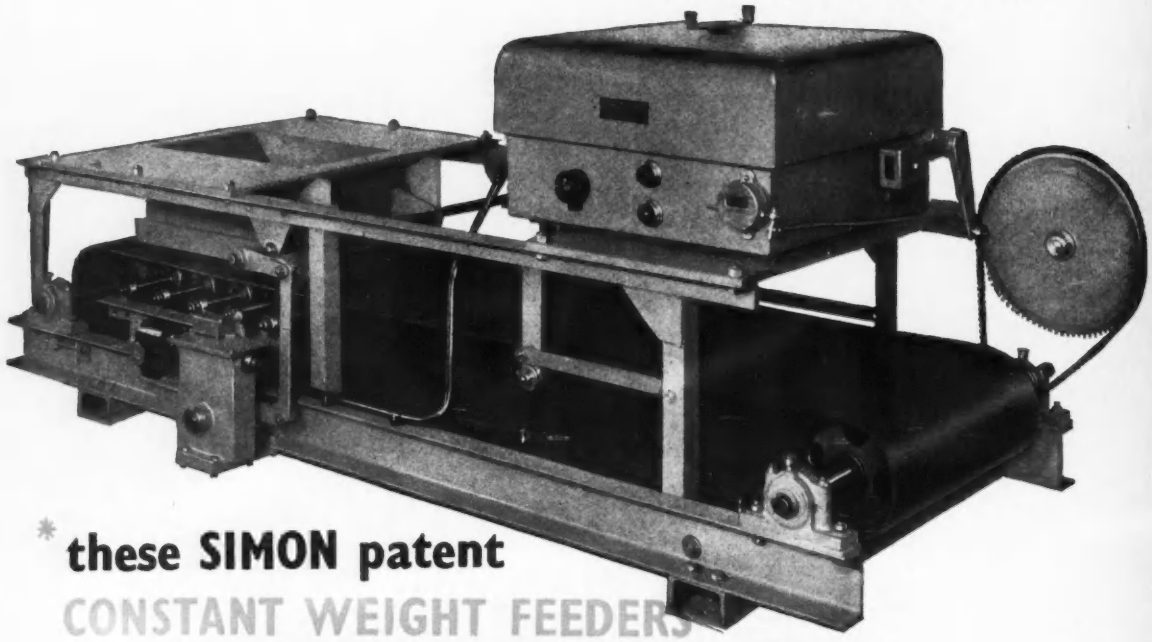
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LOW-LOADING TRAILERS, 3-ton and 7/8-ton, ex Ministry. Also Trailer-mounted TANKS, 250, 500 and 750 gallons.
BROOMWADE SV128 2-tool COMPRESSORS, 1955, Diesel, pneumatics, £575 each.
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CATERPILLAR D8, 2U 15000 Series, Birtley Hydraulic Angledozer, very good order, £3,350.
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Selection from our comprehensive fleet of Modern Plant for immediate delivery:
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18-ton Brownhoist, Shunter, 50ft. Jib.
10-ton Coles, Shunter, 40ft. Jib.
10-ton Grafton, Diesel, 34ft. Jib.
8-ton Wilson, Steam, 35ft. Jib.
5-ton Grafton, new Diesel conversion, 35ft. Jib.
5-ton Smith, 50ft. Jib (two).
CRANES (MOBILE ROAD):
Lorain 10-ton Lorry-mounted, extendible Jib, 30/70ft.
Ruston 10-ton, track-mounted, 40ft. Jib.
Ransomes 8½-ton, Diesel, 21ft. Jib, 1942.
Coles 5-ton, Mark 7, on Thornycroft Diesel Chassis.
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Jones 3-ton, Super 40. Three available.
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7-ton Henderson, 110ft. Jib, 400/3/50, 1952.
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5-ton Butters, 80ft. Jib, electric, new 1949.
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Two each, 19RB and 10RB.
Priestman Tigers, ⅝yd., new 1958.
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Two D4, fully reconditioned, with Angledozers.
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Foden 8 and 12 cu. yd., nearly new.
Three Muir-Hill 14B, Diesel, 4½yd.
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Write Box P.3053, "The Contract Journal."

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Several hundred Trianco type "B" FLOOR CENTRES.
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★ *Further Classified Plant Advertisements on pages 961-968*

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OFFER FOR SALE:
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10RB, 13400 Series, Skimmer and Backacter, £1,050.
PRIESTMAN Wolf IIIB, Dragline or F/S, 1956, good working order, £1,500.
19RB, 21000 Series, Skimmer and Backacter, in good working order, £3,900. Alternative Equipments available.
19RB, 18000 Series, any one equipment, good working order, £3,250.
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24RB, 15000 and 20000 Series, F/S Equipment, good working order. Price on application.
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38RB, 19000 Series, F/S, very good condition, £10,500.
43RB, 18300 Series, Dragline and F/S, new August, 1954, very good condition, £9,250.
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D4, L.P.C. Dozer Equipment £260
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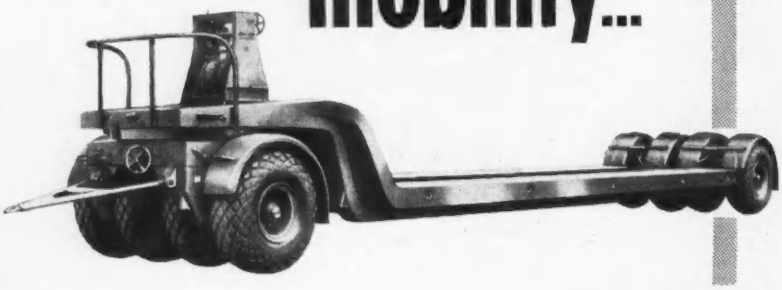
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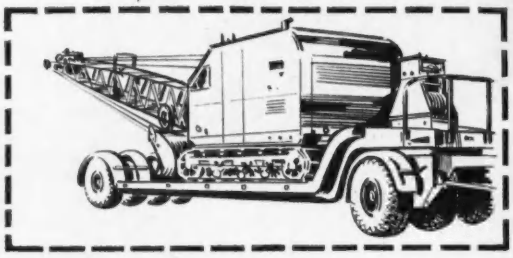
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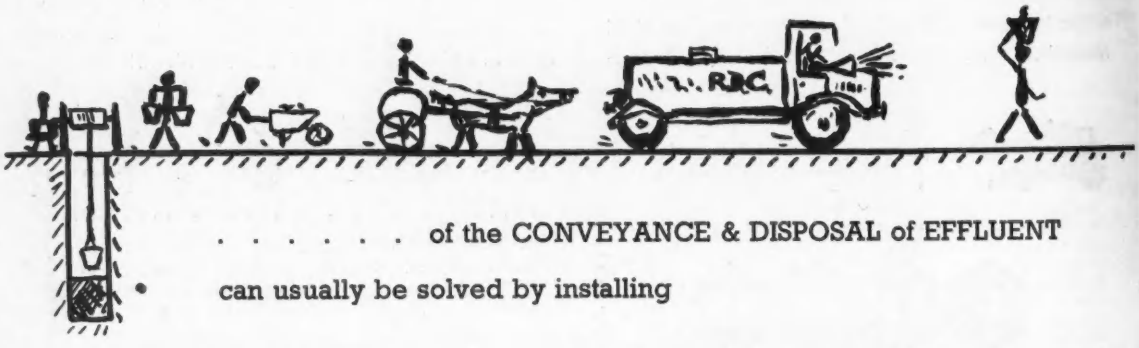
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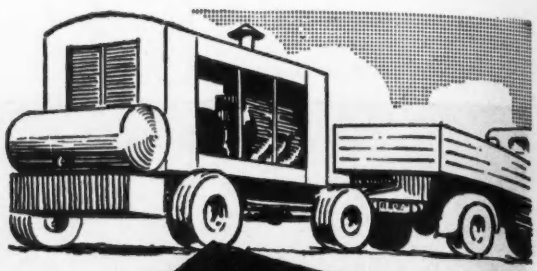


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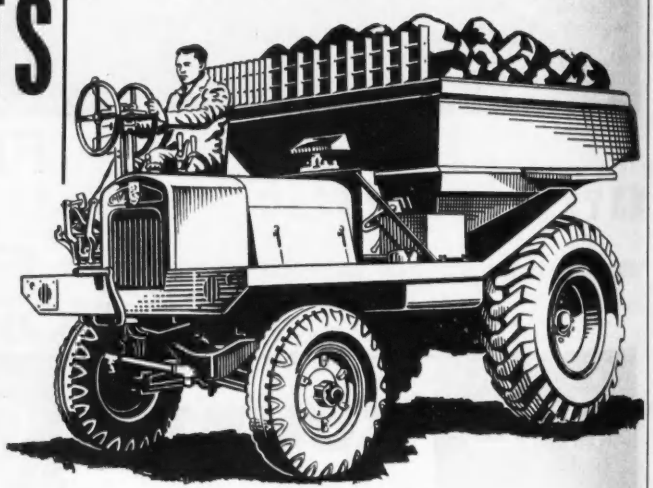
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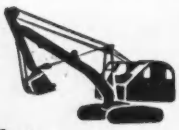
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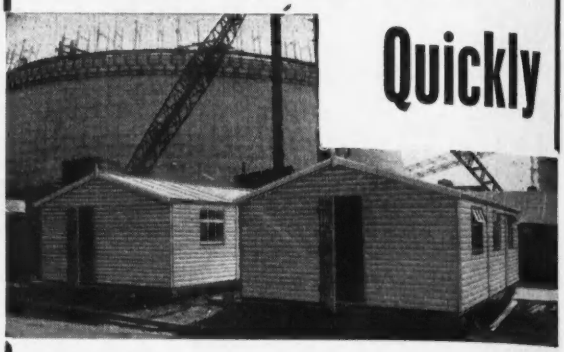




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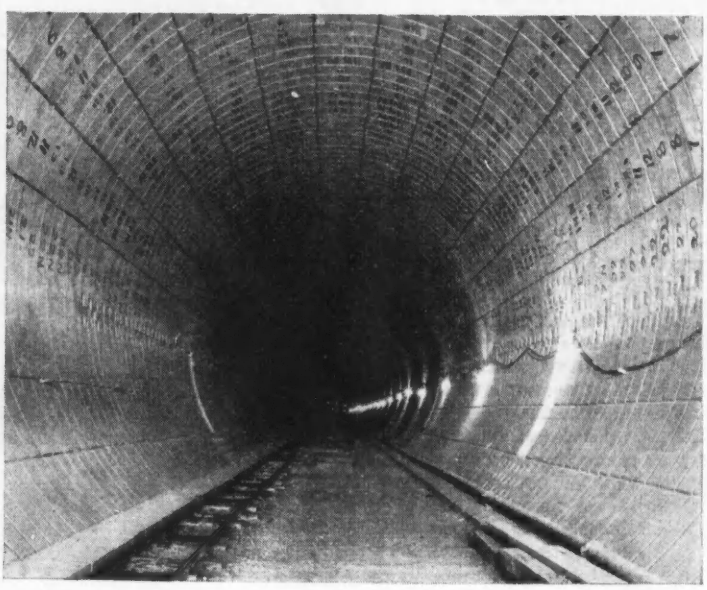


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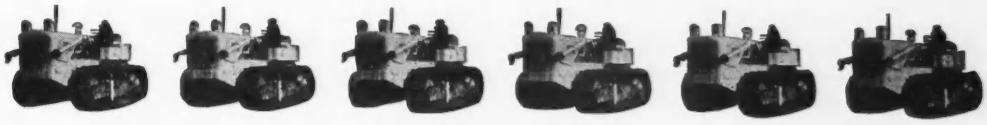
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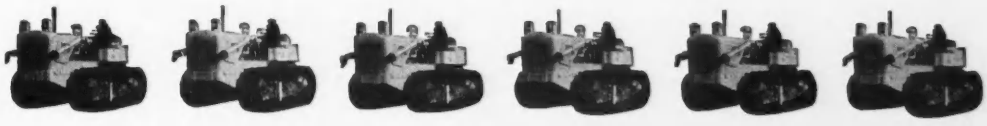
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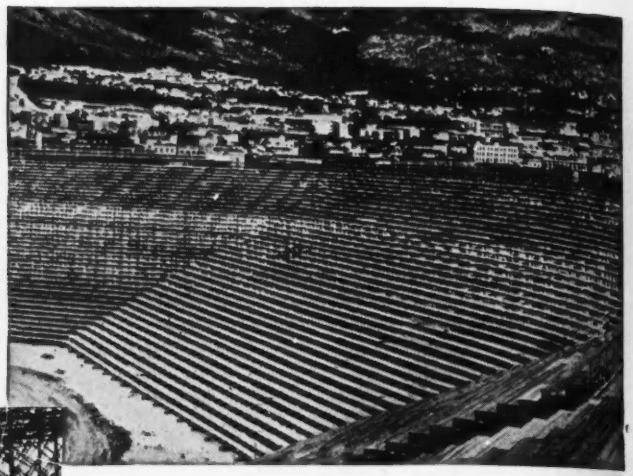
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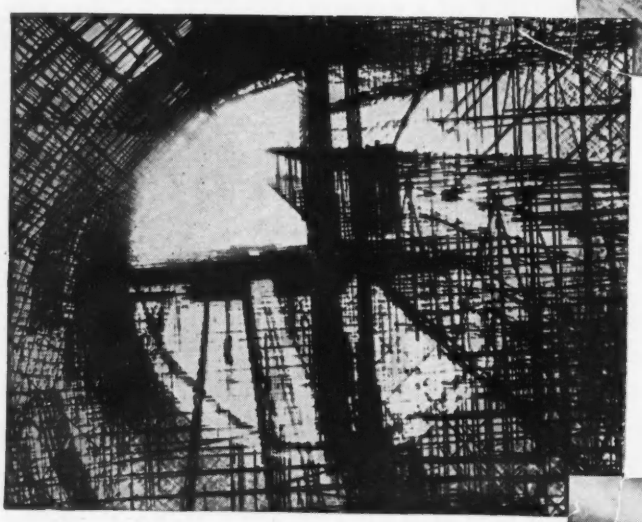
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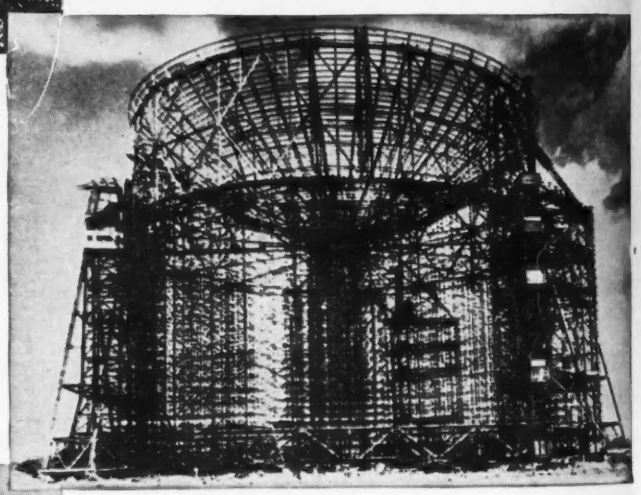
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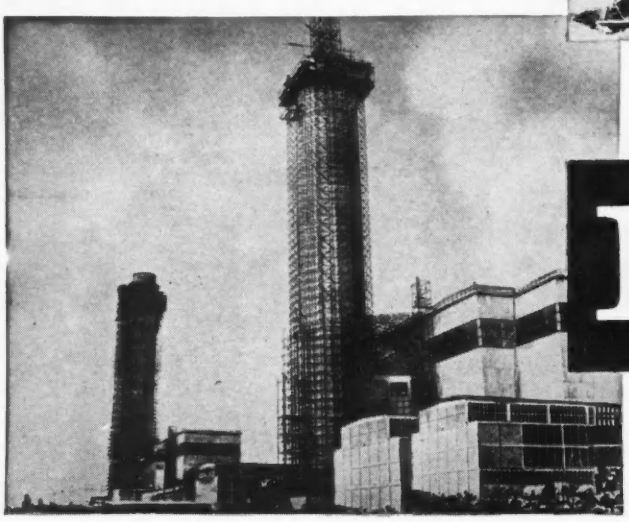




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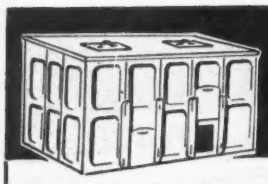
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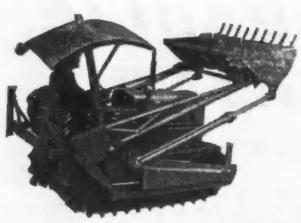
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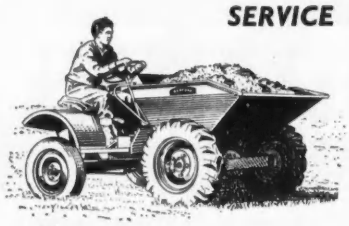
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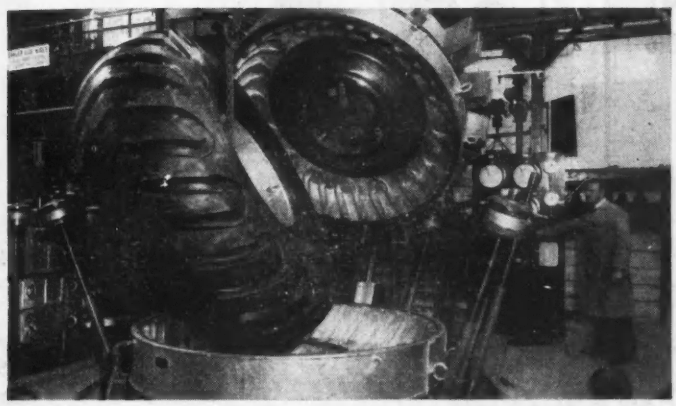
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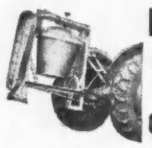
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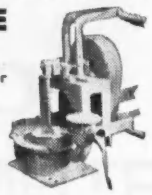
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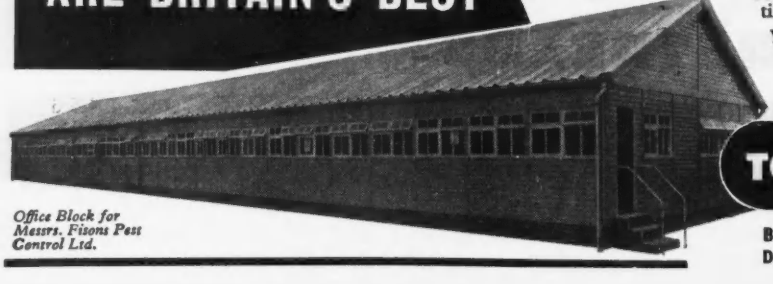
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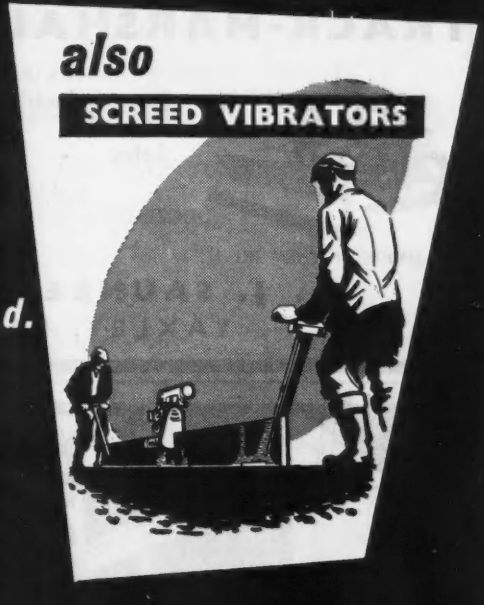
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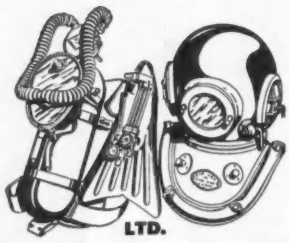
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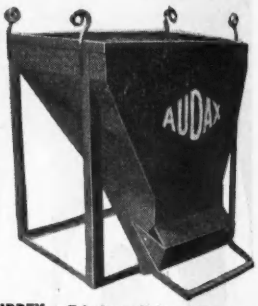
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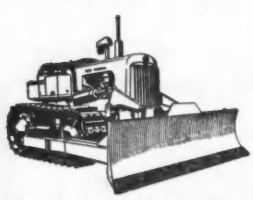
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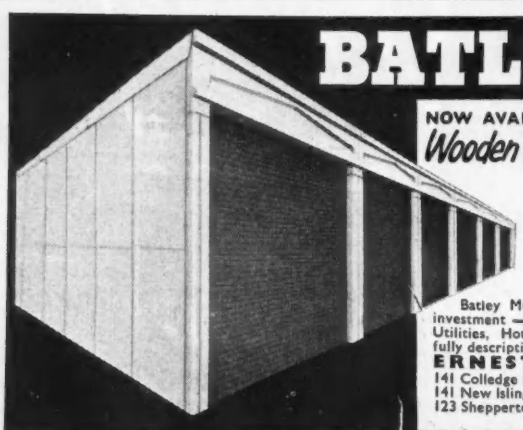
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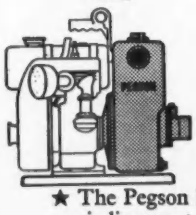
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The Wakefield 120 comes to town

. . . to Stand 52, PUBLIC WORKS EXHIBITION

The Wakefield 120 Motor Grader, most powerful in the Wakefield range, is being exhibited at the Public Works Exhibition. In the Grand Hall, you can inspect it closely, together with its small brother, the 603.

This is the first public showing of the 120 since it took on its new look, with many new developments.

Wakefield Motor Graders are busy at work in most countries, including far away and out-of-the-way places. Wherever they go, their versatility makes makes them invaluable when there's earth to be levelled or roads to be made.



Optional Extras include
Hydraulic Shiftable Moldboard
Scarifier - Bulldozer
Snowplough - Cabs, etc.

WAKEFIELD 120
Weight 25,040 lb. 130 b.h.p.

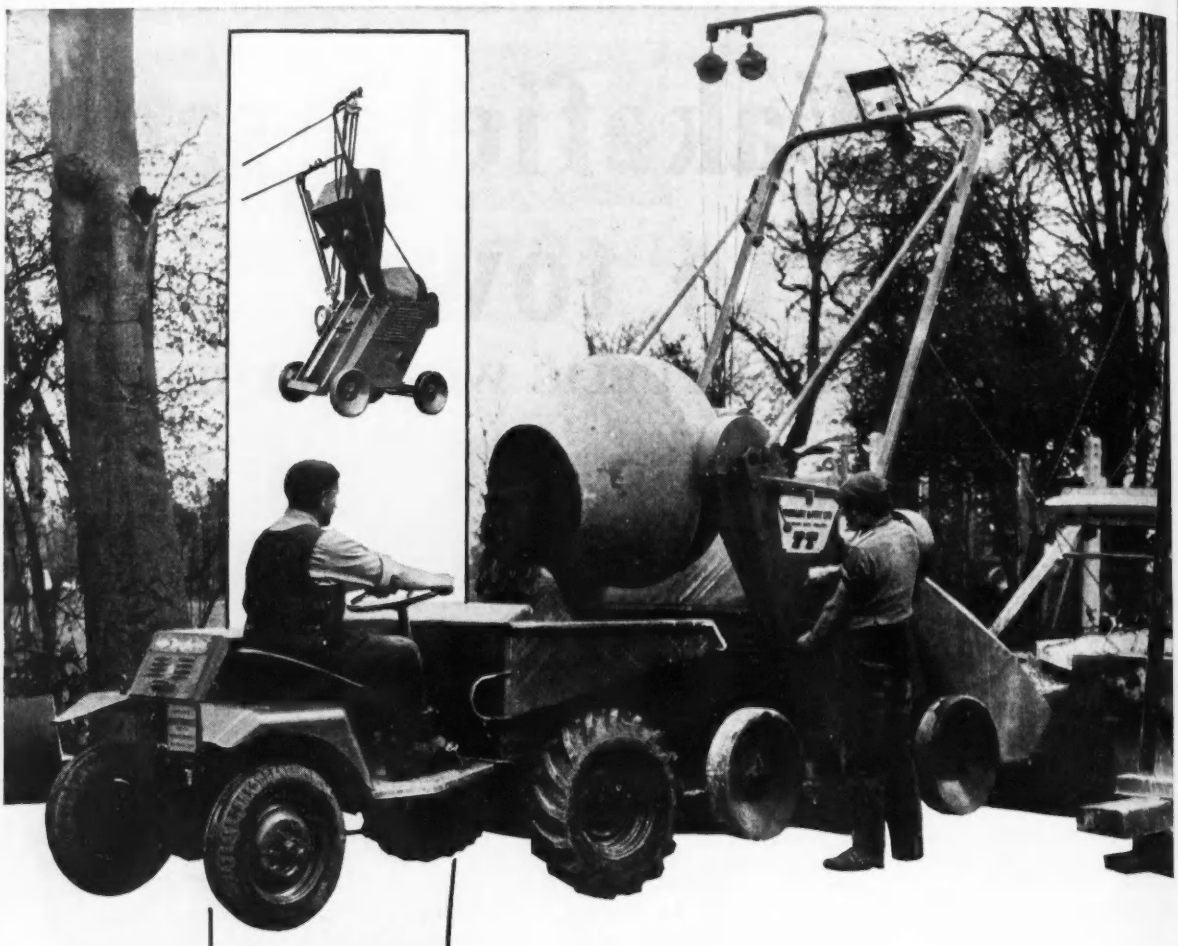
Features include:

* High-arched continuous frame
* Massive 5ft. circle, 12ft. moldboard
* Full hydraulic operation, with finger-tip control
* Chain or gear Tandem Drive
* Heavy duty constant mesh transmission
* Leaning Front Wheels
* 24v electrics
* Large tyres all round

WAKEFIELD motor graders

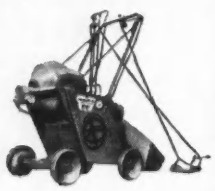
made by CONSTRUCTION MACHINERY LTD., WAKEFIELD, YORKSHIRE

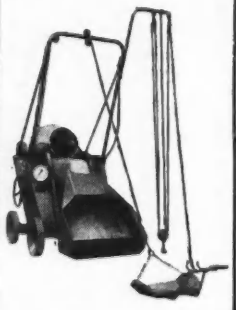
WF-6072



The 7T HYDRAULIC

—a new mixer by Stothert & Pitt

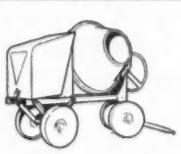




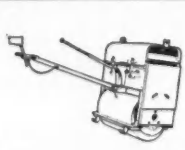


The S & P 7T Hydraulic is a machine which has quickly set new high standards for small tilting mixers. Easily transportable, the 7T Hydraulic produces high quality concrete quickly and at economical cost. Outstanding features of this revolutionary mixer are:—
Patented hydraulic drum transmission gear. Built-in weigh batching mechanism. Fingertip skip control. Meter for accurate water control. Exceptionally high angle skip discharge. High drum discharge. Scoop gear with easily erected jib. Three point support with Ackerman steering. *Please write for a fully descriptive leaflet.*

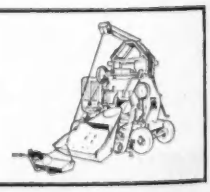
Technical Details
Mixed batch capacity=7 cu. ft. Approx. output per 8 hour day at 30 batches per hour=62 cu. yds. Water meter graduated 0–10 galls. Hand or semi-automatic operation. Discharge height=3ft. 6ins. Height of back of skip above ground level=1ft. 3in. Approx. weight of machine (with diesel engine) 35 cwts. Approx. diesel oil consumption per 8 hour day=4 gallons.
The 7T Hydraulic incorporates all the requirements of B.S.S. 1305.



S & P 3½T small tilting mixer.



S & P Vibroll 28W power propelled hand guided vibrating roller.



S & P 7NT concrete mixer with dragline scoop.

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SP 114

NOW! extra payload for the SCAMMELL 'SHERPA'

DUMP TRUCK



- Leyland 11.1 litre 6-cyl. diesel
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Extra payload is the highlight of the Mark II version of Scammell's latest 4 x 2 Dump Truck—the 9/11 cu. yd. capacity, 22 tons g.v.w. Sherpa. Though comparatively light in unladen weight, the Sherpa is robustly constructed to withstand rough usage of 'on site' operation. Compared with its companion model, which has now been well proved in service and continues in production, the Mark II version has an extra 1¼-2 ton payload, and a new design body mounted direct on the chassis, without sub-frame, giving a lower centre of gravity and greater stability.

[redacted] ... and as always extra economy with the

SCAMMELL 'SCARAB'

6 CU. YD. REFUSE COLLECTOR



Extreme manœuvrability—turning circle is under 20ft.—which saves hours in congested traffic and narrow alleyways . . . simplicity of operation and low running and maintenance make the Scammell Scarab the most economical of any vehicle employed on Refuse Collection. This latest model has four side-loading ports fitted with steel shutters, and triple expansion hydraulic tipping gear giving a 42° tip for discharging loads through rear door. Access to cab is only 15" from kerb level, and the driver can enter and leave from either side. A 4-cylinder diesel is fitted, with the option of a Scammell petrol engine if desired.

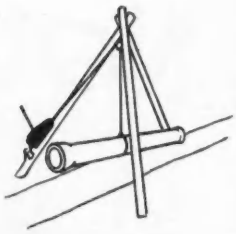
ON STAND 121 PUBLIC WORKS EXHIBITION

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The TIRFOR



by appointment to Public Works Contractors

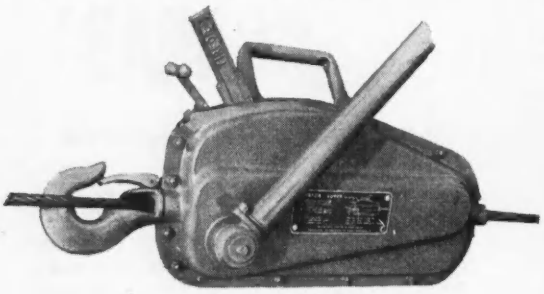


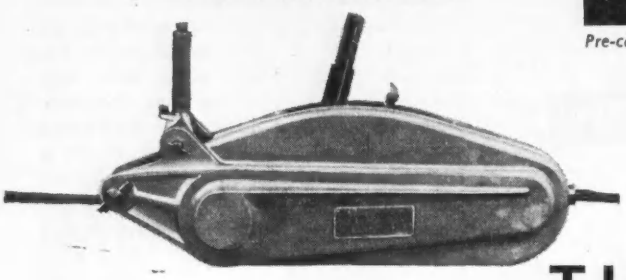
The shuttering and supporting structure of the Lune Bridge, weighing 364 tons, was removed by ten T35 machines.

Ground-clearing, hauling, loading, lifting or lowering the powerful TIRFOR machine gives a controlled reversible pull over any distance.

It can be used anywhere.

It is carried and operated by one man.







Pre-cast concrete slabs being handled in stockyard.

THE TIRFOR T13, with a mechanical advantage of 43, lifts a ton.

THE TIRFOR T35, with a mechanical advantage of 85, lifts 3 tons.

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ONE OF THE SIMM ENGINEERING GROUP

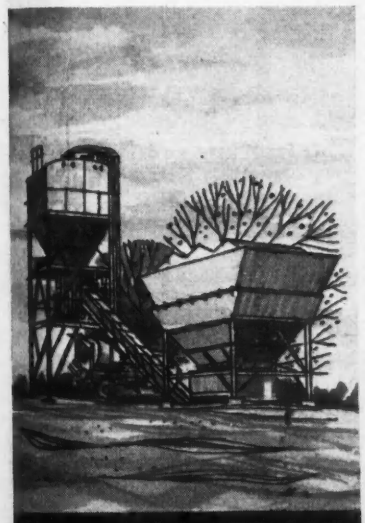
27 BROOMGROVE RD. SHEFFIELD 10. ***Phone: 64436***

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3 BASIC TYPES MULTIPLY INTO BRITAIN'S BIGGEST RANGE

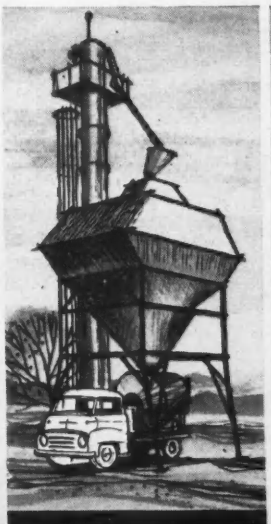
Road Machines offer you a choice of three basic units which can be easily adapted to give you the right Plant for *your* job. Each of the three types is ROADMAC-engineered on the unit construction principle—that means they are fabricated by Road Machines in units which are easily transported and quickly erected, lowering costs whilst increasing efficiency to a new all-time high. Road Machines are Masters of modern methods on accurate batching.

That's the Roadmac 'Efficiency Plan' for R.M.C. Plant



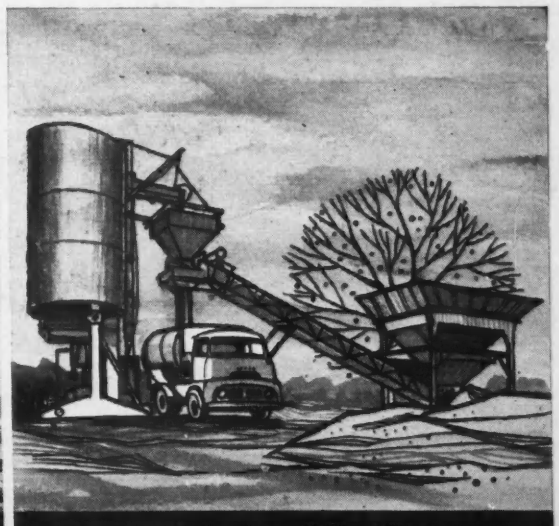
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A 90 cu. yd. hopper with an 80-ton silo designed to supply accurately proportioned materials to charge either truck-mixers or agitators in one complete batch. This plant is designed to be fed at ground level by a loading shovel.



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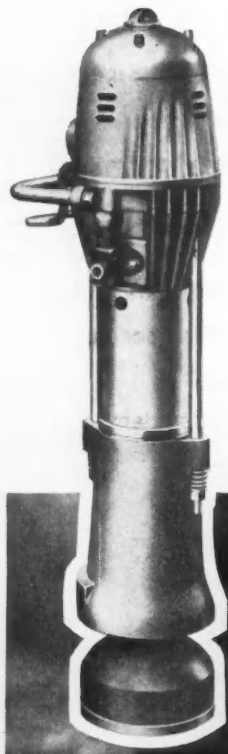
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Telegrams: ROADMACH, West Drayton.

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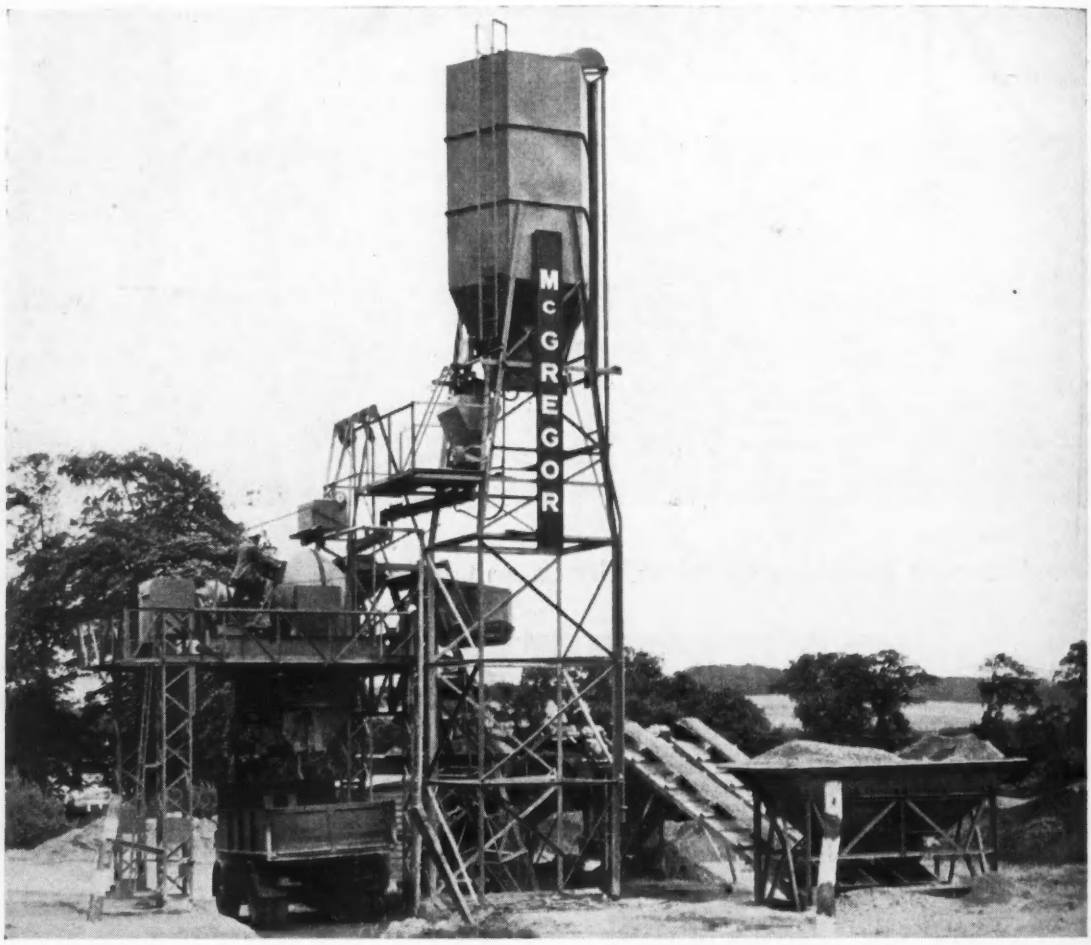
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THE "SPLIT DRUM" MIXER



Photograph by courtesy of R. R. Dalton Esq., B.Sc., M.Inst.M. & C.E., A.M.I.Struct.E., M.R.San.I., County Surveyor of Kesteven, Lincs.

The illustration shows a S.G.M.E. Concrete Mixing and Batching Plant working at Messrs. Robert McGregor & Sons, Ltd., Grantham By-Pass Contract. The Plant consists of a S.G.M.E. "Split Drum" Mixer, a 28-ton capacity Cement Silo, two 2-compartment Aggregate Bins, four short Conveyors and an Aggregate Weighbatcher. The equipment is automatic and all operations are controlled by one man from the Mixer Platform. The installation is very simple, it is easily and quickly erected, it has a large output (average 500 cu. yds. per day), it is equally suitable for dry-lean and high grade concrete and the switch over from one type of concrete to another is instantaneous. This Plant is one of a large number of installations working up and down the country on roads, runways and factories and in ready mixed concrete works to the fullest satisfaction of the users.

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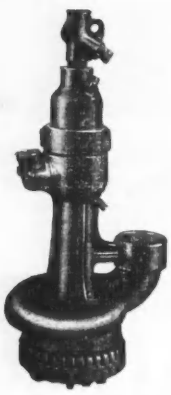
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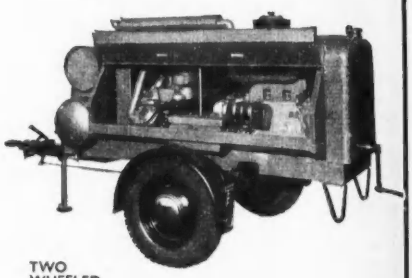
IRO-16 Air Line Lubricator



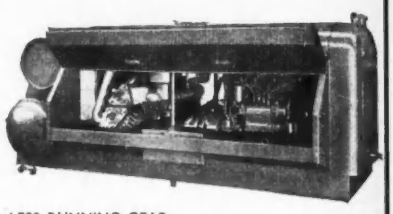
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6 cu. yd. Winget concrete mixer

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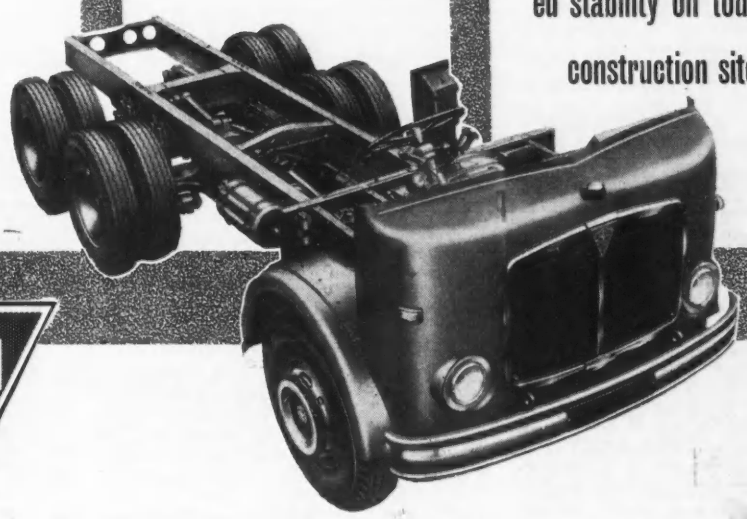
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Built-in provision for hydraulic mixer drive from crankshaft and/or gearbox.

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BOURNSTREAM IMPROVEMENT.

TENDERS are invited for WORKS on the ABOVE-MENTIONED SCHEME, which consists of Fencing, Walling, Earthworks, Drainage and ancillary Works. Length of Scheme, 620yd. The completion date is 31st March, 1961.

The works are situated at Bournstream, approximately ¾-mile north of Wotton-under-Edge on B.4060, Chipping Sodbury-Lower Cam Road. Tender documents can be obtained from the County Surveyor, Quay Street, Gloucester, on payment of a deposit of £5, made payable to the Gloucestershire County Council, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Tender for Bournstream Improvement," must be received by the County Surveyor, Quay Street, Gloucester, not later than 10 a.m. on WEDNESDAY, 7th December, 1960.

The Council does not bind itself to accept the lowest or any Tender.

GUY H. DAVIS,
Clerk of the County Council.

Shire Hall,
Gloucester.
October, 1960.

BOROUGH OF BROMLEY.

ERECTION OF FLATS.

TENDERS are invited for the ERECTION of a THREE-STOREY BLOCK of 15 OLD PEOPLE'S FLATS at CHATTERTON ROAD, Bromley.

Drawings and Conditions of Contract (R.I.B.A. Form specially adapted for the use of local authorities) may be inspected upon application to the Borough Engineer, Municipal Offices, Bromley.

Contractors should apply for Bills of Quantities and Forms of Tender not later than FRIDAY, 25th November, 1960, to the Borough Engineer.

When applying for Bills of Quantities, contractors who have not previously carried out work for the Council should also submit details of similar schemes undertaken by them, together with the names of two independent persons to whom reference can be made concerning such schemes.

Tenders must be submitted in the envelopes provided to the undersigned not later than the date indicated on the Form of Tender.

The Council does not bind itself to accept the lowest or any Tender.

LIONEL KAYE,
Town Clerk.

Municipal Offices,
Bromley,
Kent.

SHEPPEY RURAL DISTRICT COUNCIL.

MINSTER HIGH LEVEL SEWER.

TENDERS are invited for the LAYING of 1,728 lin. yd. of 12in. diameter and 271 lin. yd. of 9in. diameter SPUN-CONCRETE SEWER, together with the Construction of 35 Precast Concrete Manholes.

Specification, Bills of Quantities and Tender documents may be obtained from, and Drawings seen at, the office of the Surveyor to the Council during usual office hours. A fee of £2 is payable, and is returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes, not bearing the name or mark of the sender, endorsed "Minster High Level Sewer," must reach me not later than 12 Noon on 7th DECEMBER, 1960.

The Council does not bind itself to accept the lowest or any Tender.

R. E. GRAY,
Clerk of the Council.

Council Offices,
395 Minster Road,
Minster-in-Sheppey,
Kent.
4th November, 1960.

HATFIELD RURAL DISTRICT COUNCIL.

RE-ADVERTISEMENT.

DIXONS HILL ROAD SEWERAGE.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of approximately 250 lin. yd. 9in. and 540 lin. yd. 6in. SEWERS, with 12 M.Hs. and 450 lin. yd. of 4in. diameter DRAIN CONNECTIONS.

Specification, Bill of Quantities and Form of Tender on payment of £2 2s. deposit, returnable after receipt of a bona-fide Tender, from the Engineer and Surveyor, North Place, 82 Great North Road, Hatfield, where Drawings and documents may be inspected during office hours.

Tenders to be submitted, in the envelope provided, to the undersigned not later than 12 Noon on MONDAY, 28th November, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

S. F. JAGO,
Clerk of the Council.

Council Offices,
16 St. Albans Road,
Hatfield,
Herts.

DUNMOW RURAL DISTRICT COUNCIL.

CONTRACT NO. 15A.

GREAT EASTON AND DUTON HILL SEWERAGE EXTENSIONS.

TENDERS are invited on a Fixed-price Basis in accordance with the Ministry of Housing and Local Government Circular No. 31/57, for the CONSTRUCTION of SEWERAGE EXTENSIONS at Great Easton and Duton Hill (being completion of a contract started by a contractor who has gone into voluntary liquidation).

The Sewerage comprises, in all, the Laying of about 3,000 lin. yd. of 6in. dia. S.G.W. Sewer, together with 4in. and 6in. dia. S.G.W. House Connections, the Construction of Seven Brick Manholes and 24 Precast Concrete Manholes, and ancillary works.

General Conditions of Contract, Specification, Bills of Quantities and Drawings may be obtained from the Council's Consulting Engineers, MESSRS. J. D. AND D. M. WATSON, MM.I.C.E., 67 Tufton Street, Westminster, S.W.1, on and after 21st November, 1960, on payment of a deposit of Ten Guineas, refundable only to contractors who submit bona-fide Tenders and return all documents and Drawings. Deposit cheques should be made payable to Dunmow Rural District Council.

The Council do not bind themselves to accept the lowest or any Tender.

Tenders must be returned in envelopes which do not bear any name or mark indicating the sender, endorsed "Tender for Sewerage Contract No. 15A," and delivered at the Office of the undersigned not later than 9 a.m. on 19th DECEMBER, 1960.

F. A. RENNISON,
Clerk of the Council.

Dunmow R.D.C.,
Council Offices,
Dunmow, Essex.

CONTRACTS

NORFOLK COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

The Norfolk County Council invites TENDERS for the FOLLOWING:—

Hire of Mechanical Haulage Vehicles.
Supply and Delivery of Roadstone.
Supply and Delivery of Tar and Bitumen Coated Stone and Cold Asphalt.
Supply of Gravel and Sand.
Supply of Tar, Tar Bitumen Compounds and Bitumen Emulsion.
Supply of Ready Mixed Concrete.
Supply of Motor Fuels and Lubricants.
Surface Dressing of Roads.
Supply and Laying Bituminous Gravel Mixes.
Dense Tar Surfacing (Supplying and Laying).
Laying of Plastic White Lines.
Fixing of Reflecting Roadstuds.
Supply of Road Tools and Implements.
Mechanical Gully Emptying.

Full details and Specifications are contained in the Tender Forms, which may be obtained from the County Surveyor, County Offices, Thorpe Road, Norwich, Norfolk, NOR. 47A.

Tenders must be submitted, in duplicate, in the envelope which will be supplied, and must be delivered not later than 12 Noon on 7th DECEMBER, 1960, to the CLERK OF THE COUNTY COUNCIL, County Offices, Thorpe Road, Norwich, Norfolk, NOR. 47A.

COUNTY BOROUGH OF HUDDERSFIELD.

WATERWORKS DEPARTMENT.

PERIOD CONTRACTS FOR PIPES AND CASTINGS.

TENDERS are invited for the SUPPLY of ANY or ALL of the FOLLOWING PIPES and CASTINGS for the period of 12 months ending 31st December, 1961:

PERIOD CONTRACT "A." — British Standard Cast-Iron Pipes.
PERIOD CONTRACT "B." — British Standard Special Castings.
PERIOD CONTRACT "C." — Special Castings.
PERIOD CONTRACT "D."—Surface Boxes.

The Conditions of Contract, Specification, Schedule, Drawings and Form of Tender may be obtained, on application, from the Waterworks Engineer, 24 Ramsden Street Huddersfield.

Tenders, properly endorsed, must be received by the undersigned not later than 10 o'clock on the 5th DECEMBER, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

HARRY BANN,
Town Clerk.

Town Hall,
Ramsden Street,
Huddersfield.

COUNTY BOROUGH OF SOUTHAMPTON.

QUOTATIONS are invited from specialist contractors for (a) METAL WINDOWS and PATENT GLAZING, (b) TUBULAR STRUCTURAL STEEL FRAME at COLLEGE OF TECHNOLOGY, to be Sub-contractors to Main Contractor (R.I.B.A. Contract plus Supplemental Conditions available for inspection).

Forms and Particulars from Borough Architect on written application by 24th NOVEMBER, 1960.

Quotation to the TOWN CLERK, Civic Centre, Southampton, by 12 Noon on the 19th DECEMBER, 1960.

EGHAM URBAN DISTRICT COUNCIL.

WIDENING OF STATION ROAD (B.388)—PART 1.

TENDERS are invited for the CONSTRUCTION of CARRIAGEWAY, FOOTPATHS, SURFACE WATER SEWER and MANHOLES.

Works to be completed by 31st March, 1961.

Contract documents may be obtained from the Engineer and Surveyor's Office, Fire Station Buildings, High Street, Egham (Telelephone: Egham 3011).

Sealed Tenders, in a plain sealed envelope endorsed "Tender for Station Road—Part 1," must be delivered to the undersigned not later than 12 Noon on MONDAY, 5th December, 1960, and any Tenders received after the prescribed time will not be considered.

The Council does not bind itself to accept the lowest or any Tender.

H. R. H. SMITH,
Clerk of the Council.

Council Offices,
155 High Street,
Egham, Surrey.

ALFRETON URBAN DISTRICT COUNCIL.

TENDERS—STREET LIGHTING.

TENDERS are invited for the INSTALLATION of 134 LIGHTING UNITS, including 140-W Sodium Atlas Lamps and Stanton Concrete Columns.

Forms of Tender, Specifications and Bills of Quantity may be obtained from the Engineer and Surveyor upon a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders must be deposited not later than 12 Noon, SATURDAY, 26th November, 1960, addressed to me, in a plain sealed envelope and endorsed "Tender for Street Lighting."

The Council do not bind themselves to accept the lowest or any Tender.

H. TAYLOR,
Clerk of the Council.

Council Offices,
Nottingham Road,
Alfreton, Derbys.

RURAL DISTRICT COUNCIL OF ROCHFORD.

TO BUILDERS AND CONTRACTORS.

The Council are prepared to receive TENDERS for the CONSTRUCTION of TWO PAIRS of THREE-BEDROOM HOUSES at OAKLEIGH AVENUE, Hullbridge, and ONE PAIR of TWO-BEDROOM BUNGALOWS at HIGH ELMS ROAD, Hullbridge.

The General Conditions of Contract may be inspected, and copies of the Form of Tender, Plans and Specification may be obtained from, the Engineer and Surveyor at these Offices on payment of a deposit of Two Pounds, which will be refunded upon receipt of a bona-fide Tender, together with the return of all documents.

Sealed Tenders, addressed to the undersigned and endorsed "Tender for Contract No. 285," are to be delivered to this Office by Noon on 21st NOVEMBER, 1960.

No Tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any Tender.

S. C. HARRIS,
Clerk of the Council.

Council Offices,
Rochford, Essex.
3rd November, 1960.

CONTRACTS

CAMBRIDGESHIRE COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

PROPOSED BRIDGE AT HISTON, CAMBRIDGE.

SITE INVESTIGATION.

TENDERS are invited for the DRILLING of EIGHT TEST BOREHOLES and for the SAMPLING AND TESTING of SUBSOIL on the SITE of the Proposed New Bridge at Histon, Cambridge, and for the SUBMISSION of a COMPREHENSIVE REPORT AND RECOMMENDATIONS.

Forms of Tender, Conditions of Contract and Bill of Quantities may be obtained from the County Surveyor, Shire Hall, Castle Hill, Cambridge.

Tenders, on the official form, must be received not later than 10 a.m. on SATURDAY, 10th December, 1960, in the envelope provided, which must not bear any indication of the sender's identity.

The Council do not bind themselves to accept the lowest or any Tender.

CHARLES PHYTHIAN,
Clerk of the Council.

Shire Hall,
Castle Hill,
Cambridge.
November, 1960.

BOROUGH OF MOSSLEY.

WORKS OF SEWAGE DISPOSAL—CONTRACT NO. 2.

TENDERS are invited for the CONSTRUCTION of a MAIN STORM OVERFLOW, a 15in. dia. GLAZED STORM WATER OUTFALL approx. 40 lin. yd. in length, and the ALTERATION of the existing DETRITUS TANKS, at the MOSSLEY SEWAGE DISPOSAL WORKS, in accordance with the Drawings, Specification, and Bills of Quantities prepared by the Engineers, MESSRS. A. H. S. WATERS AND PARTNERS, of 25 Temple Row, Birmingham, 2.

The Drawings may be seen at, and the Conditions of Contract, Specification, Bills of Quantities, and Form of Tender may be obtained from the Offices of the Borough Engineer and Surveyor, or of the Engineers, on or after 21st November, 1960, on payment of a deposit of Two Guineas, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, on the form supplied and in the endorsed envelope provided, are to be delivered to me at my Offices not later than Noon on 9th DECEMBER, 1960.

The Council does not undertake to accept the lowest or any Tender.

V. C. PROCTER,
Town Clerk.

Town Clerk's Office,
38 Manchester Road,
Mossley, Lancs.
5th November, 1960.

URBAN DISTRICT COUNCIL OF TYLDESLEY.

PUBLIC SWIMMING BATHS.

TENDERS are invited for the PROVISION and INSTALLATION at the UNION STREET BATHS of a FILTRATION CHLORINATION and WATER HEATING PLANT.

Further particulars can be obtained on application to the Engineer and Surveyor, Town Hall, Tyldesley.

Tenders, in plain sealed envelopes, marked "Tender for Baths," to be sent to the undersigned not later than First Post, 10th DECEMBER, 1960.

No undertaking is given to accept the lowest or any Tender.

RICHARD F. WILSON,
Clerk of the Council.

Town Hall,
Tyldesley, Lancs.
9th November, 1960

HATFIELD RURAL DISTRICT COUNCIL.

WELHAM GREEN RELIEF SEWER.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of approx. 240 lin. yd. of 15in. dia. SEWER.

Specification and Bill of Quantities upon receipt of a deposit of £2 2s., from the Engineer and Surveyor, North Place, 82 Great North Road, Hatfield, where the Drawings and documents may be inspected during office hours.

Tenders, in the envelope provided, must reach the undersigned not later than 12 Noon on WEDNESDAY, 30th November, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

S. F. JAGO,
Clerk of the Council.

Council Offices,
16 St. Albans Road,
Hatfield, Herts.
4th November, 1960.

CHORLEY RURAL DISTRICT COUNCIL.

SEWERAGE.

TENDERS are invited on a fixed-price basis from experienced contractors for EITHER or BOTH of the FOLLOWING CONTRACTS:—

1. Anderton and Heath Charnock Sewerage, comprising the Construction of:—
   (a) Approx. 3 miles of 6in. and 9in. Sewers, with Manholes and appurtenant works.
   (b) Four small Pumping Stations and Pumping Mains.
   (c) Approx. 1¾ miles of 4in. and 6in. House Drains.
2. Clancutt Lane, Coppull, Sewerage, comprising the Construction of:—
   (a) Approx. 1 mile of Sewers varying in size from 9in. to 18in., together with Manholes and appurtenant works.
   (b) A Main Line Railway Crossing to be carried out by specialist sub-contractors.
   (c) Approx. ½-mile of 4in. and 6in. House Drains.

Drawings may be inspected and the contract documents obtained at the Offices of the Engineers, Messrs. CHARLES J. LOMAX AND SON, Chartered Civil Engineers, 68 Barton Chambers, Barton Arcade, Deansgate, Manchester, 3, on payment of a deposit of Five Guineas for each contract (cheques only, made payable to Chorley Rural District Council), which will be refunded on the receipt of a bona-fide Tender, not subsequently withdrawn.

Sealed Tenders, endorsed "Tender for Sewerage," or "Tender for Sewerage at Clancutt Lane, Coppull," as the case may be, must be returned to the undersigned not later than Noon on TUESDAY, November 29th, 1960.

The lowest or any Tender will not necessarily be accepted.

DAVID CLARKSON,
Clerk of the Council.

Council Offices,
Gillibrand Street,
Chorley.

CONTRACTS

COUNTY BOROUGH OF BOLTON.

TENDERS are invited for the SUPPLY of POLICE UNIFORM CLOTHING, CAPS, HELMETS, WATERPROOFS, SHIRTS, TIES, GLOVES, and POLICEWOMEN'S STOCKINGS for 1961.

Specifications and Forms of Tender may be obtained from the Chief Constable, Central Police Office, Bolton, and Tenders must be delivered to the Town Clerk of Bolton, in a plain sealed envelope endorsed "Tender for Police Uniform Clothing," but bearing no indication of the sender, no later than 12 Noon on SATURDAY, the 10th December, 1960.

PHILIP S. RENNISON,
Town Clerk.

Town Hall,
Bolton.

BOROUGH OF CAMBERWELL.

SURFACE WATER SEWER—SYDENHAM HILL, S.E.23.

TENDERS are invited for LAYING approx. 462yd. of 9in. G.S.W. SEWER and incidental works.

Drawing, Specification and contract documents obtainable from BOROUGH ENGINEER AND SURVEYOR, Town Hall, Peckham Road, S.E.5.

Tenders returnable by TUESDAY, December 6th, 1960.

BOROUGH OF MANSFIELD.

MANSFIELD SEWAGE DISPOSAL WORKS—STAGE I RECONSTRUCTION.

TENDERS are invited for the SUPPLY of approx. 140 tons of STEEL REINFORCING BARS (square and round), sizes $\frac{3}{8}$in. to 1in. Details of requirements and Forms of Tender can be obtained from the Borough Engineer and Surveyor, Carr Bank, Mansfield.

Tenders must reach the undersigned, in the envelope provided, not later than MONDAY, the 5th December, 1960.

The Council does not bind itself to accept the lowest or any Tender.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

CITY OF CAMBRIDGE.

PROPOSED TENNIS COURTS AT NEWMARKET ROAD.

TENDERS are invited for the CONSTRUCTION of TWO ALL-WEATHER TENNIS COURTS, comprising some 1,230 sq. yd. of Bituminous Surfaced Playing Area, together with 12ft. high Stop-netting and Playing Equipment.

Tender documents may be obtained from the City Surveyor, The Guildhall, Cambridge, on receipt of a deposit of Two Guineas, returnable only on submission of a bona-fide Tender by 3 p.m. on FRIDAY, 25th November, 1960.

The Council does not bind itself to accept the lowest or any Tender received.

ALAN H. I. SWIFT,
Town Clerk.

Guildhall,
Cambridge.

CITY OF BIRMINGHAM SALVAGE DEPARTMENT.

The SALVAGE COMMITTEE intend to ERECT a NEW SEPARATION AND INCINERATION PLANT FOR REFUSE DISPOSAL PURPOSES at CASTLE BROMWICH, Birmingham, 34.

TENDERS are invited for the SUPPLY and INSTALLATION of all the REFUSE HANDLING PLANT, together with Grit and Smoke Control, as well as the Construction of the Chimney.

Further details of this Plant may be obtained from the General Manager of the Salvage Department, Civic Centre, Birmingham, 1.

The design of the main building (together with all roadways and yard work) will be carried out by the City Architect in consultation with the successful tenderer.

Tenders, in plain sealed envelopes marked "Tender for Refuse Handling Plant—Castle Bromwich," must be delivered to me not later than 12 Noon on 23rd JANUARY, 1961.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

HORSHAM URBAN DISTRICT COUNCIL.

INDUSTRIAL SITE—REDKILN WAY, HORSHAM.

ROADWORKS—STAGE II.

The Council will shortly be inviting TENDERS for the ABOVE CONTRACT, which comprises the Re-shaping and Surfacing to 4,000 sq. yd. of existing Hardcore Carriageway, and the Construction of Footways and Verges.

Contractors wishing to be included in the list of Tenderers must notify the Surveyor to the Council not later than First Post on MONDAY, 28th November 1960.

The Council do not bind themselves to include all applicants on their selected list.

S. ASHTON STRAY,
Clerk of the Council.

Council Offices,
Horsham Park,
Horsham, Sussex.

CIRENCESTER RURAL DISTRICT COUNCIL.

REGIONAL WATER SUPPLY—EASTERN AREA.

TENDERS are invited for the CONSTRUCTION of about 15,600 lin. yd. of SPUN-IRON WATER MAINS 3in., 4in. and 6in. in dia., a REINFORCED CONCRETE SERVICE RESERVOIR, BOOSTER STATION, and incidental works, in accordance with the Drawings, Specification and Bills of Quantities prepared by the Engineers, MESSRS. A. H. S. WATERS AND PARTNERS, of 25 Temple Row, Birmingham, 2.

The Drawings may be seen at, and the General Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from the Offices of the undersigned, or of the Engineers, on or after 21st November, 1960, on payment of a deposit of Five Guineas, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders on the form supplied and in the endorsed envelope provided, are to be delivered to me at my Office not later than Noon on 16th DECEMBER, 1960.

The Council does not undertake to accept the lowest or any Tender.

A. WALTER,
Clerk of the Council.

5 Dyer Street,
Cirencester,
Gloucestershire.
8th November, 1960.

URBAN DISTRICT OF MERTON AND MORDEN.

TO BUILDING CONTRACTORS.

TENDERS are invited for the ERECTION of a VEHICLE AND PLANT STORE at a new Parks Nursery at PEACOCK FARM, LOWER MORDEN LANE, Morden.

Forms of Tender, Bill of Quantities and Specification may be obtained, and Drawing and Conditions of Contract inspected, at the Office of the Engineer and Surveyor, Morden Hall, S.W.19, during normal office hours.

Sealed Tenders, in the envelope provided, bearing no mark indicating the sender, must be delivered to me not later than 10 a.m. on FRIDAY, 25th November, 1960, endorsed "Peacock Farm."

SYDNEY ASTIN,
Clerk of the Council.

Morden Hall,
S.W.19.

BUCKLEY URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

TENDERS are invited for the CONSTRUCTION of 330 lin. yd. of CARRIAGEWAYS, with Surface Water Drains and certain ancillary works in TABERNACLE STREET and BISTRE AVENUE.

Tender documents may be obtained from, and Plans and Sections inspected at, the Offices of the Council's Surveyor, Council Chambers, Buckley, Flintshire, on the payment of a fee of £2 2s. (cheques to be made payable to the Buckley Urban District Council), returnable on receipt of a bona-fide Tender.

Completed Tenders, in a plain sealed envelope endorsed "Private Street Works," must be received by the undersigned not later than 12 Noon, TUESDAY, the 6th December, 1960.

The Council does not bind itself to accept the lowest or any Tender.

STEVEN E. LIGO,
Clerk of the Council.

Council Chambers,
Buckley,
Flintshire.

CHURCH STRETTON URBAN DISTRICT COUNCIL.

CHURCH STRETTON WATER SUPPLY.

CONTRACT 1.

The Council invite TENDERS from experienced public works contractors having substantial previous experience of such works, for the LAYING of approx. 2,050 lin. yd. of 8in. SPUN-IRON WATER MAINS and 1,950 lin. yd. of 3in. SPUN-IRON WATER MAINS, together with Fittings and other incidental works.

The Drawings can be inspected at, and copies of the Specification, Bills of Quantities and Form of Tender can be obtained from the Engineers, MESSRS. WILLCOX, RAIKES AND MARSHALL, 33 Great Charles Street, Birmingham, 3, on or after 21st November, 1960, on application, accompanied by a statement of previous similar works executed and a cheque for Five Guineas drawn in favour of the Council as a deposit, which will be refunded after delivery of a bona-fide Tender and the return of all documents supplied.

Tenders, on the form supplied, are to be delivered to the undersigned not later than 12 o'clock Noon on MONDAY, 19th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

Dated this 8th day of November, 1960.

H. J. B. WILLIAMS,
Clerk of the Council.

Council Offices,
Church Stretton,
Shropshire.

FAILSWORTH URBAN DISTRICT COUNCIL.

ERECTION OF 50 HOUSES—BRIERLEY AVENUE.

PHASE II.

The Council invites TENDERS for the ERECTION of 50 DWELLINGS on the ABOVE SITE.

The Scheme consists of: 21 pairs of Two-bedroom Houses; Two Four Blocks of Two- and Three-bedroom Houses; 450 lin. yd. Dwarf Garden Walls one brick thick.

Forms of Tender, Bills of Quantities and Specification may be obtained from the Office of the Engineer and Surveyor, Town Hall, Oldham Road, Failsworth, near Manchester, upon the receipt of a deposit of Five Guineas, which will be refunded on the receipt of a bona-fide Tender.

Drawings and Conditions of Contract may be inspected at the above Office during normal office hours.

Tenders must be enclosed in a plain sealed envelope endorsed "50 Dwellings—Brierley Avenue (Phase II)," and delivered to the undersigned not later than 12 o'clock Noon on SATURDAY, the 10th December, 1960.

The Council does not bind itself to accept the lowest or any Tender.

JOHN WALTON,
Clerk of the Council.

Town Hall,
Oldham Road,
Failsworth,
Near Manchester.
7th November, 1960.

WELTON RURAL DISTRICT COUNCIL.

WATER SUPPLY IMPROVEMENTS—CONTRACT NO. 2.

TENDERS are invited for the PROVISION and CONSTRUCTION of approximately 1,750 lin. yd. of 4in. diameter CLASS "B" ASBESTOS-CEMENT WATER MAINS at COLD HANWORTH and approximately 3,600 lin. yd. of 5in. diameter CLASS "B" ASBESTOS-CEMENT WATER MAINS at CHERRY WILLINGHAM and REEPHAM, in the Welton Rural District of Lincolnshire.

Contractors wishing to Tender should apply for the documents and Drawings to the Council's Consulting Engineers, JOHN H. HAISTE AND PARTNERS, Belmont House, 20 Wood Lane, Headingley, Leeds, 6, enclosing a deposit cheque value Three Guineas, made payable to the Welton R.D.C., such deposit to be refunded on receipt of a bona-fide Tender and the return of all the documents.

Tenders, with the Bills of Quantities priced in ink, are to be submitted to the undersigned not later than 12 Noon on THURSDAY, 1st December, 1960.

The Council do not bind themselves to accept the lowest or any Tender they may receive.

L. H. KING,
Clerk to the Council.

Council Offices,
31 Clasketgate,
Lincoln.

COUNTY BOROUGH OF ST. HELENS.

CONTRACT 2160—75 DWELLINGS—GREENBANK NO. 2 REDEVELOPMENT SITE, ST. HELENS.

The ST. HELENS CORPORATION invite TENDERS for the ERECTION and COMPLETION of the ABOVE 75 HOUSING UNITS. The units are planned in the form of five Multi-storey Blocks, traditional in construction, each block composed as follows: No. 3—Four-storey Blocks each containing 12 Maisonnettes and three Flats: No. 2—Three-storey Blocks containing 12 Flats in one Block and 18 Flats in the other.

The development fronts on to Glover Street, St. Helens.

The Bills of Quantities and Form of Tender may be obtained from the undersigned on the payment of £2 2s., which will be returned upon receipt of a bona-fide Tender.

Working Drawings and Conditions of Contract can be inspected at the Architectural Office, No. 5 Cotham Street, St. Helens.

Tenders must be delivered, sealed in the envelope provided, to the Town Clerk, Town Hall, St. Helens, not later than 9 a.m., FRIDAY, 16th December, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

M. WARD, M.I.Mun.E., M.T.P.I.,
Borough Engineer and Surveyor.

Town Hall,
St. Helens.

BOROUGH OF HOVE.

TENDERS are invited for the ERECTION of FIFTY-NINE PERMANENT BEACH CHALETS, BOWLS PAVILION and PUBLIC SHELTERS in Brickwork and Reinforced Concrete, with Cantilever Roofs.

Applications to Tender must be received by the Borough Engineer and Surveyor by 10 a.m. on Friday, 9th December, 1960. From such applications a selected list of tenderers will be made, to whom Bills of Quantities and Forms of Tender will be forwarded not later than 2nd January, 1961. Drawings and Form of Contract may be seen at the Borough Engineer and Surveyor's Office.

Applications to Tender must be accompanied by a deposit of £3 3s., which will be refunded to those not invited to Tender or on receipt of a bona-fide Tender, as the case may be. The Council does not bind itself to accept the lowest or any Tender.

Tenders, on forms supplied, addressed to the undersigned in a sealed envelope endorsed "Tender for Beach Chalets, etc.," must be delivered not later than 10 a.m. on MONDAY, 23rd January, 1961.

JOHN E. STEVENS,
Town Clerk.

Town Hall,
Hove, 3.

SUNBURY - ON - THAMES URBAN DISTRICT COUNCIL.

TENDERS invited by Noon, 5th DECEMBER, 1960, for CONSTRUCTION of ROADS, FOUL and SURFACE WATER SEWERAGE, etc., at HOUSING SITE NO. 21, OAKHALL, Sunbury-on-Thames.

Specification, Form of Tender, etc., obtainable from the ENGINEER AND SURVEYOR, Council Offices, Sunbury-on-Thames, Middlesex.

PONTYPRIDD URBAN DISTRICT COUNCIL.

YNYS CORRWG HOUSING SITE, HAWTHORN, PONTYPRIDD.

ADVANCE PREPARATION CONTRACT.

The Council invite FIRM-PRICE TENDERS for the ABOVE CONTRACT, which involves the FOLLOWING WORK:—

2,000 cu. yd. Excavation; 350yd. of 18in. and 21in. Concrete Tubes; 900 lin. yd. 6in., 9in. and 12in. diameter Sewers; 2,500 sq. yd. Hardcore and Tarmacadam to Carriageways, together with Fences and appurtenant Works.

Plans may be seen, and Conditions of Contract, Specification, Bills of Quantities and Form of Tender obtained, from MR. W. CECIL EVANS, Engineer and Surveyor, Municipal Buildings, Pontypridd, on payment of a deposit of Two Guineas, which will be returned to the tenderer after the Council have entered into a Contract on the Tenders received, provided he shall have sent in a bona-fide Tender (and returned all documents supplied in connection therewith) and shall not have withdrawn same.

Tenders, in addressed envelope provided for that purpose, sealed and endorsed "Advance Preparation of Housing Site at Ynys Corrwg," and bearing no mark indicating the sender, must be received by the undersigned not later than Noon on MONDAY, the 5th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

BERNARD M. MURPHY,
Clerk of the Council.

Municipal Buildings,
Pontypridd.

STROUD URBAN DISTRICT COUNCIL.

PURCHASE OF TRACTOR-DRAWN GULLEY EMPTIER.

TENDERS are invited for the SUPPLY of the ABOVE PLANT. Details of requirements may be obtained from the Engineer and Surveyor.

Tenders are to be sent by the 7th DECEMBER, 1960, to the undersigned in a plain sealed envelope bearing no indication as to the identity of the sender and marked "Tender for Gulley Emptier."

The Council do not bind themselves to accept the lowest or any Tender.

H. S. GIBBONS,
Clerk of the Council.

Council Chambers,
High Street,
Stroud,
Glos.

MIDHURST RURAL DISTRICT COUNCIL.

ROAD AND SEWER WORKS—NEW ROAD, MIDHURST.

TENDERS are invited, on a FIXED-PRICE BASIS, for the CONSTRUCTION of 283 lin. yd. of 6in. and 9in. diameter SOIL and SURFACE WATER SEWERS, 590 sq. yd. of TARMACADAM LAY-BY and FOOTWAY, together with ancillary Works, at NEW ROAD, Midhurst.

General Conditions, Specifications, Bills of Quantities, Drawings and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Midhurst, upon the payment of £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender.

Tenders must be enclosed in a plain sealed envelope endorsed "Road and Sewer Works—New Road," and be delivered to the undersigned by MONDAY, 12th December, 1960.

The Council does not bind itself to accept the lowest or any Tender.

D. L. BLAY,
Clerk of the Council.

Council Offices,
Midhurst.

CONTRACTS

EAST SUFFOLK COUNTY COUNCIL.

BAWDSEY V.C.P. SCHOOL—ALTERATIONS AND EXTENSIONS.

The Council propose to invite **FIRM-PRICE TENDERS** from selected builders for **ALTERATIONS** to the **EXISTING BUILDING** and the **ERECTION** of **EXTENSIONS** of some 1,600 sq. ft. floor area.

Drawings, prepared under the direction of MR. E. J. CUNDLIFFE, A.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, between 9 a.m. and 4 p.m.

Building contractors wishing to tender should submit their names to the **COUNTY ARCHITECT**, County Hall, Ipswich, before the 1st **DECEMBER**, 1960. From the names submitted, a number of builders will be selected, and these will be furnished with Bills of Quantities, Drawings, etc., on or about the 9th December; builders not selected will be notified at the same time.

Tenders are required by the 2nd **JANUARY, 1961.**

METROPOLITAN BOROUGH OF FINSBURY.

The **FINSBURY BOROUGH COUNCIL** invite **TENDERS** for the **UNDERMENTIONED SUPPLIES**, etc., during the 12 months commencing 1st April, 1961:—

Aggregates. Sand and Ballast.
Asphalt Paving Repairs.
Brooms and Brushes, etc.
Castings.
Chandlery.
Drain and Sewer Construction, Maintenance and Repair.
Fuel Oils.
Granite Kerb and Chippings.
Highways Maintenance and Repairs.
Motor Lorries on Hire and Removal of Rubbish, etc.
Motor Oils and Paraffin.
Stone Dressing.
Tools and General Plant.
Uniform Clothing, etc.
Windows, etc., Cleaning.
York and Artificial Paving.

Forms of Tender may be obtained from the Borough Engineer, Finsbury Town Hall Annexe, Rosebery Avenue, E.C.1.

Intending contractors must sign a declaration and undertaking (which will accompany the Tender Form) as to observance of trade union conditions. Only those firms who sign and return such undertaking will be considered for acceptance.

All Tenders will be subject to the Council's General Conditions of Contract, a copy of which will be attached to the Tender Form.

Tenders must be delivered to me, in the official envelope provided, not later than 2nd **JANUARY, 1961.**

HENRY A. DAVEY,
Town Clerk.

Finsbury Town Hall,
Rosebery Avenue, E.C.1.

BOROUGH OF CASTLEFORD.

CONTRACT NO. 157—SUPPLY OF J.C.B. 4 HYDRAULIC EXCAVATOR.

TENDERS are invited for the **SUPPLY** and **DELIVERY** of One J.C.B. 4 Hydraulic **EXCAVATOR** with Equipment.

Copies of the Contract documents, comprising Form of Tender, General Conditions of Contract, Specification and Schedule of Equipment to be provided, may be obtained from the Office of the Borough Engineer and Surveyor, Town Hall, Castleford, on the payment of a deposit of £2 2s., which will be refunded only upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Supply of J.C.B. 4 Hydraulic Excavator—Contract No. 157," but otherwise bearing no mark or indication of the sender, must be received by the undersigned not later than 9 a.m. on **MONDAY**, the 5th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ERNEST HUTCHINSON,
Town Clerk.

Town Hall,
Castleford,
Yorks.

THE RURAL DISTRICT COUNCIL OF TRURO.

PORTLOE SEWERAGE SCHEME.

TENDERS are invited from experienced contractors for the **CONSTRUCTION** of approximately 1,300 lin. yd. of 6in. S.G.W. and **PITCH FIBRE PIPE**, together with the necessary Manholes. The Contract includes the Construction of a Heading approximately 90yd. long, together with the Construction of a Disintegrator Station.

Plans, General Conditions of Contract, Specifications and Bills of Quantities, together with instructions to tenderers, may be obtained from the Council's Consulting Engineers, MESSRS. **OSMAND AND LANE**, Trevemper Lodge, Trevemper Bridge, Newquay, to whom all inquiries with regard to the above Contract should be addressed.

Applications for Tender documents should be accompanied by a deposit of £3 3s., made payable to the Truro Rural District Council. This deposit will be refunded upon the submission of a bona-fide Tender and the return complete to the Council of all requisite Plans and Contract documents.

Tenders, with the envelope endorsed "Contract T.76," should be sent to the undersigned, to arrive not later than **WEDNESDAY**, 21st December, 1960.

R. W. BARRATT,
Clerk of the Council.

Rural Council Hall,
River Street,
Truro.
17th November, 1960.

CAISTOR RURAL DISTRICT COUNCIL.

TENDERS FOR HOUSING.

The above Council invite contractors who are desirous of submitting **TENDERS** for the **ERECTION** and **COMPLETION** of **SIX HOUSES** at **NETTLETON** to send in their names to the Architects, MESSRS. **WM. SAUNDERS AND PARTNERS**, of 24 Castle Gate, Newark-on-Trent, Notts., or 57 Upgate, Louth, Lincolnshire, from whom copies of the Specifications and Bills of Quantities and Conditions may be obtained on payment of £3 3s., which will be returned on receipt of a bona-fide Tender.

The Council do not bind themselves to accept the lowest or any Tender received, and acceptance is subject to the approval of the Ministry of Housing and Local Government.

Sealed and endorsed Tenders, on forms supplied, must reach the undersigned not later than 12 Noon on **FRIDAY**, the 9th December, 1960.

C. G. BARR,
Clerk of the Council.

Council Offices,
Caistor, Lincs.
10th November, 1960.

CONTRACTS

COUNTY BOROUGH OF ST. HELENS.

CONTRACT NO. 2161—105 DWELLINGS—BURROWS LANE SITE, ECCLESTON, NEAR ST. HELENS.

The **ST. HELENS CORPORATION** invite **TENDERS** for the **ERECTION** and **COMPLETION** of the **ABOVE 105 HOUSING UNITS**, consisting of Seven Four-storey Blocks in traditional construction, each Block containing 12 Maisonnettes and three Flats.

The Bills of Quantities and Forms of Tender may be obtained from the undersigned on payment of £2 2s., which will be returned upon receipt of a bona-fide Tender.

Working Drawings and Conditions of Contract can be inspected at the Architectural Office, No. 5 Cotham Street, St. Helens.

Tenders must be delivered, sealed in the envelope provided, to the Town Clerk, Town Hall, St. Helens, not later than 9 a.m., **FRIDAY**, 16th December, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

M. WARD, M.I.Mun.E., M.T.P.I.,
Borough Engineer and Surveyor.

Town Hall,
St. Helens.

COUNTY BOROUGH OF BURY.

SUPPLY OF OVERALL CLOTHING.

TENDERS invited for **SUPPLY** of **OVERALL CLOTHING** for Employees of Cleansing Department. Form of Tender, Conditions of Contract and Schedule of the Clothing Required may be obtained from Director of Public Cleansing, Town Hall, Bury, where specimens of types of overall required may be inspected.

Tenders, in plain sealed envelope endorsed "Tenders for Overalls—Cleansing Department," must reach me not later than 26th **NOVEMBER, 1960.**

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
5th November, 1960.

BOROUGH OF COLNE.

ROAD IMPROVEMENT—KEIGHLEY ROAD (A.6068).

TENDERS, on a Fixed-price Basis, are invited for the **ABOVE WORK**, comprising Formation of Embankment requiring approx. 22,000 cu. yd. of Fill, Kerbing, and Construction of Carriageway in Waterbound Macadam with Bituminous Macadam Surfacing (approx. 4,500 super. yd.), together with Drainage and Construction of Ancillary Retaining Walls.

Tender documents, incorporating the Ministry of Transport Specification for Road and Bridge Works, may be obtained from the Borough Engineer, Town Hall, Colne, Lancs., on receipt of £5 deposit (returnable on receipt of a bona-fide Tender) and must be returned in a plain sealed envelope endorsed "Road Improvement—Keighley Road," to the **TOWN CLERK**, Town Hall, Colne, not later than 9 a.m., **WEDNESDAY**, 30th November.

BOROUGH OF WIDNES.

EDUCATION COMMITTEE.

FIXED-PRICE TENDERS are invited for the **ERECTION** of the **ADDITION** of **FOUR CLASSROOMS** and Ancillary Accommodation at **OAKFIELD COUNTY PRIMARY SCHOOL.** The structure will be Steel-framed; floor area approx. 5,500 sq. ft.

Conditions of Contract and Drawings may be inspected, and Bill's of Quantities obtained from the Borough Architect, Brendan House, Widnes Road, Widnes, on receipt of a returnable deposit of £2 2s.

Tenders to be received not later than 10 a.m. on **MONDAY**, 5th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FRANK HOWARTH,
Town Clerk.

Town Hall,
Widnes.
November, 1960.

BOROUGH OF EPSOM AND EWELL.

CONSTRUCTION OF FOOTPATHS, KERBING AND SURFACING WORKS.

The **CORPORATION** invite **TENDERS** from experienced public works contractors for the **CONSTRUCTION** of **FOOTPATHS, KERBING, SURFACING WORKS TO CARRIAGEWAY**, and ancillary works, at **RUXLEY FARM HOUSING ESTATE**, West Ewell.

Copies of the Conditions of Contract, Specification, Bill of Quantities, Conditions and Form of Tender may be obtained from the Office of MR. COLIN COBBETT, M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Epsom, during working hours, upon payment of a deposit of £2 2s. Deposits will be returned to contractors submitting a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to me at the address mentioned below not later than Noon on **MONDAY**, 5th December, 1960, and no Tender will be received and considered unless it is enclosed in a plain sealed envelope endorsed "Construction of Footpaths—Ruxley Farm." This envelope must not bear any mark or name indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

EDWARD MOORE,
Town Clerk.

Town Hall,
The Parade,
Epsom, Surrey.
November, 1960.

CITY OF BATH.

EDUCATION COMMITTEE.

NEW TECHNICAL COLLEGE.

Contractors desirous of **TENDERING** for the **ERECTION** of the **SECOND INSTALMENT** of **THIS COLLEGE**, comprising approximately 14,000 sq. ft. of Workshop Accommodation, 52,000 sq. ft. of Laboratories and Classrooms and a Caretaker's House, should submit their names to the Architects, MESSRS. **FREDERICK GIBBERD**, 19 The Rows, Stone Cross, Harlow, Essex, by 26th **NOVEMBER, 1960.**

Applications must be accompanied by a cheque for £3 3s., made payable to the Bath Corporation, which will be returned on receipt of a bona-fide Tender.

Bills of Quantities and Form of Tender will be forwarded to applicants as soon as possible after the above date, when instructions regarding delivery of Tenders will be notified.

Drawings may be inspected at the offices of the Architects, or at the offices of the Quantity Surveyors, MESSRS. **W. E. UNDERWOOD AND SON**, 21 Gay Street, Bath, by appointment.

JARED E. DIXON,
Town Clerk.

Guildhall,
Bath.

CONTRACTS

BOROUGH OF ABINGDON.

HIGHWAYS ACT, 1959, PRIVATE STREET WORKS (CODE OF 1892).

NORTH AVENUE AND WEST AVENUE.

TENDERS, on a **FIXED-PRICE BASIS**, are invited for the **MAKING-UP** of **NORTH AVENUE** and **WEST AVENUE**, Abingdon.

The Work involves the Construction of approximately 3,500 sq. yd. of Carriageway and Footways, with Surface Water Drainage Works.

Tender documents may be obtained from, and Contract Drawings inspected at, the office of the Borough Engineer and Surveyor, The Abbey House, Abingdon, during normal office hours.

Forms of Tender and Contract documents must be returned in the envelope provided endorsed "Tender for HW/7," which must not in any way indicate the name of the sender, so as to reach the undersigned not later than Noon on **FRIDAY**, 2nd December, 1960.

The Council does not bind itself to accept the lowest or any Tender.

E. W. J. NICHOLSON,
Town Clerk.

The Abbey House,
Abingdon,
Berks.
8th November, 1960.

BOROUGH OF MIDDLETON.

WORCESTER ROAD CHILDREN'S PLAYPARK.

TENDERS are invited for the **CONSTRUCTION** of the **ABOVE-MENTIONED PLAYPARK.**

The works comprise Excavation for, and Construction of, Footways, Sandpit and Flagged Area; and Cultivation and Seeding of Grassed Areas, together with the necessary Drainage Works.

Drawings may be inspected, and copies of the Conditions of Contract, Specification and Form of Tender may be obtained at the Office of the Borough Surveyor, Town Hall, Middleton, subject to a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes marked "Tender—Worcester Road Playpark," are to be delivered to the undersigned not later than Noon on **SATURDAY**, 10th December, 1960.

The Council does not bind itself to accept the lowest or any Tender.

F. JOHNSTON,
Town Clerk.

Town Hall,
Middleton,
Near Manchester.
9th November, 1960.

CITY OF BIRMINGHAM.

SALVAGE COMMITTEE.

TENDERS are invited for the **SUPPLY** and **DELIVERY** to the Works of the Salvage Department, situate at **ROTTON PARK STREET, LADYWOOD**, Birmingham, 16, of **TWO OVERBAND MAGNETIC TIN SEPARATORS.**

Full details of the requirements of the Corporation may be obtained from the General Manager, Salvage Department, Civic Centre, Broad Street, Birmingham, 1.

Closing date for Tenders, Noon, **THURSDAY**, 1st December, 1960.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

CITY OF BIRMINGHAM.

SALVAGE COMMITTEE.

TENDERS are invited for the **SUPPLY** and **DELIVERY** to the Works of the Salvage Department, situate at **MONTAGUE STREET, Bordesley, Birmingham, 9**, of **ONE HORIZONTAL MILLING MACHINE.**

Full details of the requirements of the Corporation may be obtained from the General Manager, Salvage Department, Civic Centre, Broad Street, Birmingham, 1.

Closing date for Tenders, Noon, **THURSDAY**, 1st December, 1960.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

AMERSHAM RURAL DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

NEW ROAD, LITTLE KINGSHILL—DRAINAGE SCHEME.

The Council will shortly be inviting **TENDERS** for the **ABOVE SCHEME**, which comprises the Construction of 491yd. of 6in. diameter Sewer in Flexibly Jointed Concrete Pipe, Lateral Connections to Property Boundaries, together with permanent reinstatement and all other ancillary Works. Plans and documents will be available in three to four weeks' time.

Contractors who wish to Tender for this work should forward their names and addresses, together with a payment of £2 2s., which will be returned on receipt of a bona-fide Tender, to MR. J. GOODEHERE, A.M.I.Mun.E., Engineer and Surveyor, Amersham Rural District Council, 42 High Street, Amersham.

Application should be made before **FRIDAY**, 25th November, 1960.

H. E. BUXTON,
Clerk to the Council.

Elmodesham House,
42 High Street,
Amersham,
Bucks.

BASILDON DEVELOPMENT CORPORATION.

ROAD 6—PHASE II.

CONTRACT E.136.

The Corporation invites **TENDERS** for the **CONSTRUCTION** of approximately 1¾ **MILES** of **DUAL CARRIAGEWAY ROAD**, comprising 62,000 sq. yd. of 8in. Reinforced Concrete Carriageway, together with Cycle Track, Footway, Surface Water Sewers, and ancillary Works.

Plans may be seen, and Bills of Quantities, Specification and Form of Tender obtained, on application to the Chief Engineer, Basildon Development Corporation, Gifford House, Basildon, Essex, on payment of a deposit of £5 5s., which will be returned on receipt of a bona-fide Tender on the form provided, together with a Priced Bill of Quantities fully completed. The deposit will not be returned if the Tender is subsequently withdrawn.

Tenders, enclosed in the official envelope provided, must reach the undersigned not later than Noon on **MONDAY**, the 5th December, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

R. C. C. BONIFACE,
General Manager.

8th November, 1960.

CONTRACTS

CITY OF CARDIFF.

CORPORATION WATERWORKS.

TENDERS FOR THE CONSTRUCTION OF THE LLANDEGFEDD IMPOUNDING RESERVOIR.

The date for receipt of TENDERS for the CONSTRUCTION of the ABOVE WORKS has been extended from the 22nd NOVEMBER, 1960, to the 2nd DECEMBER, 1960.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.

FAILSWORTH URBAN DISTRICT COUNCIL.

ERECTION OF 20 GARAGES—DAY DRIVE SITE.

The Council invite TENDERS for the ERECTION of 20 GARAGES in Two Blocks of 12 and 8. The Garages will be of Brick and Concrete Block Construction with up-and-over type doors, together with all Site and Approach Roadworks.

Conditions of Contract, Specification and Bill of Quantities may be obtained from the Engineer and Surveyor, Town Hall, Failsworth, on receipt of a deposit of One Guinea, which will be refunded on receipt of a Bona-fide Tender and return of all the documents.

Drawings may be inspected at the above address during normal working hours.

Tenders, in plain sealed envelopes endorsed "Tender—Day Drive Garages," must be received by the undersigned not later than 12 o'clock Noon on SATURDAY, the 10th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN WALTON,
Clerk of the Council.

Town Hall,
Failsworth.
8th November, 1960.

WANTAGE RURAL DISTRICT COUNCIL.

CHADDLEWORTH SEWERAGE SCHEME.

TENDERS are invited for the CONSTRUCTION of approx. 1,000yd. of 6in. PITCH FIBRE PIPE SEWERS, Lateral Connections and Manholes.

Specification, Bills of Quantities, Drawings and Form of Tender may be obtained from the Engineer and Surveyor, Belmont, Wantage, Berks., upon payment of Three Guineas, which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn and the return of all documents.

The Tender is to be delivered, in the envelope provided, to the undersigned by not later than SATURDAY, the 17th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. WOODGATE,
Clerk of the Council.

Council Offices,
Belmont,
Wantage, Berks.
November, 1960.

WEST CORNWALL WATER BOARD.

CONTRACT NO. 13—MADRON WATER SCHEME.

PIPELAYING.

The Board invite FIXED-PRICE TENDERS from experienced contractors for EXCAVATING FOR, SUPPLYING, LAYING, JOINTING, and the MAINTENANCE of about ¾-mile of SPUN-IRON PIPES with Tyton Joints, together with Valves and Fittings, etc., and the SUPPLY and ERECTION of TWO BOOSTER PUMPS and SWITCHGEAR, etc.

The General Conditions, Specification, Bill of Quantities and Form of Tender for this Contract, prepared by the Engineers, HERBERT LAPWORTH PARTNERS, 25 Victoria Street, Westminster, S.W.1, may be obtained from the undersigned on or after Monday, the 21st November, 1960, on receipt of a cheque for £5, made payable to the West Cornwall Water Board, which sum will be returned on receipt of a bona-fide Tender.

Tenders, together with all documents received, are to be enclosed in a sealed cover endorsed "Madron Water Scheme—Tender for Contract No. 13—Pipelaying," and addressed to the undersigned and delivered not later than 10 a.m. on MONDAY, 19th December, 1960.

Only Tenders from firms experienced in this type of work will be considered.

The Board do not bind themselves to accept the lowest or any Tender.

E. O. WHEALE,
Clerk to the Board.

Municipal Buildings,
Penzance.
11th November, 1960.

WEST CORNWALL WATER BOARD.

DRIFT WATER SCHEME.

CONTRACT NO. 8.

LUDGVAN AND TREVELYAN SERVICE RESERVOIRS.

The Board invite FIXED-PRICE TENDERS from experienced contractors for the CONSTRUCTION of TWO CONCRETE SERVICE RESERVOIRS: Ludgvan, with a capacity of 500,000 gallons; and Trevelyan, with a capacity of 150,000 gallons, on sites in West Cornwall.

Tenders will be accepted for either or both reservoirs.

The reservoirs are of similar design, being rectangular in plan, with normally Reinforced Concrete Walls, Columns and Flat Slab Roof.

The General Conditions of Contract, Specification, Bill of Quantities and Form of Tender for this Contract, prepared by the Engineers, HERBERT LAPWORTH PARTNERS, 25 Victoria Street, Westminster, S.W.1, may be obtained from the undersigned on or after Monday, the 21st November, 1960, on receipt of an application stating the reservoir for which documents are required, and payment of a deposit of £2 2s. by cheque for each reservoir, made payable to the West Cornwall Water Board, which sums will be returned on receipt of a bona-fide Tender.

Tenders, together with all documents received, are to be enclosed in a sealed cover endorsed "Drift Water Scheme—Tender for Contract No. 8," and addressed to the undersigned and delivered not later than 10 a.m. on MONDAY, 19th December, 1960.

Only Tenders from firms experienced in this type of work will be considered.

The Board do not bind themselves to accept the lowest or any Tender.

E. O. WHEALE,
Clerk to the Board.

Municipal Buildings,
Penzance.
11th November, 1960.

CONTRACTS

METROPOLITAN BOROUGH OF WANDSWORTH.

CONTRACTS.

TENDERS invited for SUPPLY of MATERIALS and EXECUTION of WORKS for the three-year period commencing 1st April, 1961:—

(a) Refuse Bins for Flats.
(b) Cement.
(c) Cleaning Rags and Oilman's Sundries.
(d) Coal.
(e) Coke.
(f) Diesel Oil for Motor Vehicles (Derv).
(g) Dustbins.
(h) Electric Lamps—Metal Filament and Electric Discharge.
(i) Electrical Works.
(j) Fine and Coarse Aggregates.
(k) Granite Chippings and Dust.
(l) Hire of Road Rollers.
(m) Horticultural Sundries.
(n) Iron Castings.
(o) Lubricating and other Oils.
(p) Manhole Covers and Frames.
(q) Mortar.
(r) Paraffin and Fuel Oils.
(s) Petroleum Spirit.
(t) Polishes and Disinfectants.
(u) Ready Mixed Concrete.
(v) Refuse Storage Containers.
(w) Removal and Disposal of Street Sweepings.
(x) Removal and Disposal of Surplus Materials.
(y) Salt Glazed Ware.
(z) Soaps and Bath Cubes.
(aa) Surface Dressing Carriageways with Bitumen and Tar.
(bb) Toilet Paper.

Tender Forms, obtainable from Borough Engineer, must reach me by 10 a.m., 16th DECEMBER, 1960.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

BOROUGH OF ACTON.

RECONSTRUCTION OF SEWER.

The COUNCIL invites TENDERS for RECONSTRUCTION WORK on section of 4ft. OUTFALL SEWER at PUMPING STATION, WARPLE WAY, Acton, W.3, including Installation of Penstock, Flume and Flow Recording Apparatus. Form of Tender may be obtained from the Borough Engineer, and must be returned to the TOWN CLERK, Town Hall, Acton, W.3, by 2nd DECEMBER, 1960.

LONGDENDALE URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS—HIGHWAYS ACT, 1959.

TENDERS are invited for the MAKING-UP of MOORFIELD STREET and KING STREET, two adjacent streets in HOLLINGWORTH.

The work comprises approx. 1,850 sq. yd. of Tarmacadam Surfacing, Kerbing, and other incidental works.

Drawings may be inspected, and Tender documents may be obtained on application to the Engineer and Surveyor at the undermentioned Offices, on payment of a deposit of £2, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelope endorsed "Tender for Private Street Works," must reach the undersigned not later than MONDAY, the 19th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. W. SARGENT,
Clerk of the Council.

Council Offices,
Hollingworth,
Near Manchester.
12th November, 1960.

DORKING URBAN DISTRICT COUNCIL.

CLEANING AND DREDGING MILL POND.

TENDERS are invited from experienced contractors for EXCAVATION, DREDGING and CLEANING WORKS. Approx. area of pond 2½ acres.

Particulars from Engineer and Surveyor. Tenders to be submitted to the undersigned so as to reach him not later than 12 Noon on MONDAY, 19th December, 1960.

F. G. SUTHERLAND,
Clerk of the Council.

Pipobrook,
Dorking, Surrey.
8th November, 1960.

DORKING URBAN DISTRICT COUNCIL.

DEMOLITION—CLEARANCE AREAS.

TENDERS are invited for the DEMOLITION of the FOLLOWING:—

(1) 27 Properties at Church Gardens and Barley Mow Gardens.
(2) Six Properties at Orchard Road.

Particulars from Engineer and Surveyor. Tenders to be submitted to the undersigned so as to reach him not later than 12 Noon on WEDNESDAY, 7th December, 1960.

F. G. SUTHERLAND,
Clerk of the Council.

Pipobrook,
Dorking, Surrey.
8th November, 1960.

LINCOLNSHIRE RIVER BOARD.

SEA DEFENCE WORKS AT WINTHORPE AVENUE, SKEGNESS.

TENDERS are invited from civil engineering contractors for the CONSTRUCTION of a NEW SEA WALL approx. 2,730ft. long and EIGHT SHEET ASPHALT GROYNES at Winthorpe Avenue, Skegness.

The Sea Wall consists of Reinforced Concrete Stepwork protected with a Toe of Steel Sheet Piling and surmounted with a Wave Return Wall. The proposed works also involve the Extensions to two Existing Timber and Grouted Stone Groynes and the Placing of approx. 100ft. of Gabion Work at the southern end of the new wall.

Drawings, Specification, Bill of Quantities and Form of Tender may be obtained from the Engineer to the Lincolnshire River Board, 50 Wide Bargate, Boston, Lincs., on the payment of a deposit of £5 5s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, and the return of the documents.

Tenders, sealed in a plain sealed envelope and endorsed "Sea Defence Works at Winthorpe Avenue, Skegness," must be delivered to the undersigned not later than Noon on MONDAY, 19th December, 1960.

G. E. PHILLIPPO,
Clerk of the Board.

50 Wide Bargate,
Boston,
Lincs.
November, 1960.

CONTRACTS

BOROUGH OF COLWYN BAY.

STREET LIGHTING CONVERSION SCHEME.

CONTRACTS NOS. 1—7.

TENDERS are invited for the FOLLOWING WORKS and MATERIALS:

CONTRACT NO. 1.—Class "A" Lighting: Supply and Installation of 99 Class "A" Concrete Columns, together with Sodium Lanterns, etc.
CONTRACT NO. 2.—Supply of 480 Class "B" Concrete Columns.
CONTRACT NO. 3.—Supply of 480 Sodium Lanterns, 60-W Sodium Lamps, and Control Gear.
CONTRACT NO. 4.—Supply of 270 Time Switches.
CONTRACT NO. 5.—Erection and Installation of 480 Class "B" Lighting Units complete.
CONTRACT NO. 6.—Laying of Cable Ducts.
CONTRACT NO. 7.—Removal of existing Gas Lamps.

Separate Tenders are required for each Contract, and documents may be obtained from MR. H. WILMAN, A.M.I.C.E., Borough Engineer and Surveyor, Whalley Range, Lansdowne Road, Colwyn Bay. Suppliers should note that the offer of alternative equipment for each Contract will be welcomed, but that separate Tender documents will be required for each alternative; they must therefore state clearly the Contracts for which they require documents, and the number of documents required.

Tenders, in plain sealed envelopes endorsed "Street lighting Conversion Scheme, Contract No. ——," must be delivered to the undersigned not later than 12 Noon on SATURDAY, 3rd December, 1960.

HAROLD E. BRAITHWAITE,
Town Clerk.

Town Hall,
Colwyn Bay.
7th November, 1960.

THURROCK URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

DEMOLITION WORK—67/83 (ODD), 74/76 (EVEN), 26/32 (EVEN), ST. CHAD'S ROAD, AND 72/80 (EVEN), CHRISTCHURCH ROAD, TILBURY.

TENDERS are invited for the TAKING-OUT and DISPOSAL of REINFORCED CONCRETE FOUNDATIONS, including incidental works thereto, to the ABOVE PROPERTIES.

Copies of the Form of Tender, Specification and Drawing may be obtained from the Engineer and Surveyor, Council Offices, Whitehall Lane, Grays.

Tenders, accompanied by Specification, in a plain sealed envelope endorsed "Demolition Works—Tilbury," must be delivered to the Clerk of the Council by not later than 12 Noon on TUESDAY, 22nd November, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. E. POOLE,
Clerk of the Council.

Council Offices,
Whitehall Lane,
Grays.

LEATHERHEAD URBAN DISTRICT COUNCIL.

TENDERS are invited for ROAD JUNCTION IMPROVEMENT WORKS at LOWER ROAD, Great Bookham, including 130 lin. yd. Kerbing, 213 sq. yd. Footpath and 140 sq. yd. Lean-mix Concrete.

Tender documents obtainable, and Plans may be inspected at the Engineer and Surveyor's Department, Red House, Leatherhead.

Tenders, in envelopes provided, to the undersigned by Noon, 24th NOVEMBER, 1960.

J. EDE,
Clerk of the Council.

EAST KESTEVEN RURAL DISTRICT COUNCIL.

EXTENSIONS TO ANWICK SEWAGE DISPOSAL WORKS.

CONTRACT NO. 1.

TENDERS are invited for the CONSTRUCTION of EXTENSIONS to the SEWAGE DISPOSAL WORKS at Anwick, near Sleaford, Lincolnshire. The Extensions consist of new Settlement and Humus Tanks, Filter Beds, Sludge Drying Beds, and a Pumping Station with Storage Tanks, together with the Laying of some 280yd. of 9in. dia. SEWER from a nearby factory.

Contractors wishing to tender should apply to the Council's Consulting Engineers, MESSRS. JOHN H. HAISTE AND PARTNERS, 44/46 Bridge Street, Peterborough, enclosing a deposit cheque value Three Guineas, made payable to the East Kesteven Rural District Council, such deposit to be refunded on receipt of a bona-fide Tender and the return of the documents.

Drawings may be inspected at either the Council Offices or the Consulting Engineers' Office.

Tenders should be submitted to the undersigned not later than 12 Noon on WEDNESDAY, 14th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. P. HAZELTON,
Clerk of the Council.

Council Offices,
18 Northgate,
Sleaford, Lincs.
8th November, 1960.

FYLDE WATER BOARD.

TENDERS are invited for the FOLLOWING:—

(a) Sulphate of Alumina.
(b) Hydrate of Lime.
(c) Asbestos-Cement Pipes and Fittings.
(d) Cement.
(e) Gunmetal Ferrules.
(f) Cast-Iron Surface Boxes.

Full particulars from the ENGINEER TO THE BOARD, Sefton Street, Blackpool.

Tenders, bearing the appropriate title, but no other name or mark, must be delivered not later than DECEMBER 9th, 1960.

FYLDE WATER BOARD.

COLERIDGE ROAD DEPOT, BLACKPOOL.

TENDERS are invited from experienced contractors for the SUPPLY, DELIVERY and ERECTION of a PATENT ALUMINIUM CURTAIN WALLING for the ABOVE DEPOT.

Further particulars and Tender documents from the ENGINEER TO THE BOARD, Sefton Street, Blackpool.

Tenders to be received not later than 13th DECEMBER, 1960.

CONTRACTS

DEVON COUNTY COUNCIL.

TENDERS are invited for the SUPPLY of ROADMEN'S TOOLS during 1961.

Forms of Tender and full particulars from COUNTY SUPPLIES OFFICER, Pinhoe Road Trading Estate, Whipton, Exeter.

EAST SUFFOLK COUNTY COUNCIL.

PRIVATE STREET WORKS.

CONTRACT NO. 38.

TENDERS are invited for MAKING-UP WINDRUSH ROAD, KESGRAVE, from its junction with the Trunk Road A.12 for a distance of approx. 519 lin. yd. in a southerly and easterly direction to its junction with Ashdale Road.

The works include a 16ft. Carriageway; Precast Concrete Kerbing; Footways; Surface Water Drainage; and ancillary works.

The works will be subject to the I.C.E. Conditions of Contract, Form of Tender, Specification, Bills of Quantities and Site Plan may be obtained from the County Surveyor, County Hall, Ipswich, upon deposit of a sum of £2 2s., which will be refunded upon receipt of a bona-fide Tender which is not subsequently withdrawn, and return of all documents. The Drawings may be inspected at the County Surveyor's Office during normal working hours.

Tenders, in plain sealed envelopes endorsed "Private Street Works—Kesgrave," and bearing no mark or indication of the sender, should be delivered to the undersigned not later than 10 a.m. on MONDAY, 5th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

G. C. LIGHTFOOT,
Clerk of the County Council.

County Hall,
Ipswich.

ETON RURAL DISTRICT COUNCIL.

HORTON AND WRAYSBURY PUBLIC WATERCOURSES.

The above Council invite TENDERS for TRIMMING BACK and CLEARING THE BANKS of, and Removing Suckers, Weeds, Silt and Rubbish from the Bed of the ABOVE WATERCOURSES, and the CUTTING BACK and REMOVAL of LOW LIMBS or BRANCHES OVERHANGING THE STREAM, and the REMOVAL of DEAD and DYING TREES. The Watercourses have a combined length of about 400 chains of varying widths, depths and conditions.

Particulars of the route and other information relating to the Watercourses, together with Form of Tender, may be obtained from MR. G. W. FROGGATT, B.Eng., A.M.I.C.E., Engineer and Surveyor to the Council, at the Council Offices, Windsor Road, Slough, during ordinary office hours, on receipt of £1 1s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders are to be submitted in sealed envelopes (provided by the Council) endorsed "Tenders for Watercourses," and are to be delivered to the undersigned by not later than 12 Noon on MONDAY, 12th December, 1960.

Contractors must submit particulars of their experience in similar works and be prepared to furnish security for the fulfilment of the Contract.

The Council do not bind themselves to accept the lowest or any Tender and will not be responsible for any expenses incurred by those tendering.

G. L. BRIDGER,
Clerk to the Council.

Council Offices,
Windsor Road,
Slough, Bucks.
17th November, 1960.

BELFORD RURAL DISTRICT COUNCIL.

TENDERS are invited from competent contractors for the FOLLOWING WORK:—

(i) Regional Water Scheme—Glororum:—
  (1) Construction of a 120,000-gallon R.C. Reservoir at Glororum, near Bamburgh.
  (2) The Laying of approx. 2 miles of 4in. and 6in. dia. Spun-Iron Main and other ancillary works to Bamburgh.
(ii) Sea Outfalls at Seahouses:—
  Tidal Repair Work to the Surround and Supports of Two 12in. dia. Cast-Iron Pipe Outfalls across the rocks, each approx. 325yd. long.

The contractor may tender for either or both schemes.

Forms of Tender, Specification and Bills of Quantities for each scheme may be obtained from the Council's Consulting Engineers, Messrs. WATERHOUSE AND ROUNTHWAITE, 16S Westmorland Road, Newcastle upon Tyne, 4, on payment of a deposit of Five Guineas, which sum will be refunded on receipt of a bona-fide Tender.

Conditions of Contract and Drawings may be seen at the above Office and at the Council Offices in Belford during normal office hours.

Tenders must be delivered to the undersigned not later than First Post, 10th DECEMBER, 1960.

The Council does not bind itself to accept the lowest or any Tender.

(Signed) R. J. HOGG,
Clerk to the Council.

Council Offices,
54 High Street,
Belford, Northumberland.

STAFFORDSHIRE POTTERIES WATER BOARD.

TITTESWORTH RESERVOIR SCHEME.

27IN. DIA. MAIN—LADDEREDGE TO STOCKTON BROOK.

FIXED-PRICE TENDERS are invited from manufacturers experienced in the FOLLOWING CLASSES OF WORK for:

(1) CONTRACT NO. 44.—Supply and Delivery of approx. 5,060yd. of 27in. nominal dia. Steel Pipes and Specials.
(2) CONTRACT NO. 46.—Supply and Delivery of 12 Sluice Valves, 6in. to 21in. dia., and 10 Air Valves.

The General Conditions of Contract, Specification and Form of Tender for each of the above Contracts may be obtained from the undersigned.

The completed Forms of Tender must be returned not later than 12 Noon on MONDAY, 5th December, 1960, in the envelope provided, not bearing any name or mark indicating the sender, and endorsed "Tender for 27in. dia. Steel Pipes and Specials—Contract No. 44," and "Tender for Sluice Valves and Air Valves—Contract No. 46," respectively.

C. V. BROWN, M.I.C.E., M.I.Mech.E., M.I.W.E.,
Engineer and Manager and Clerk to the Board.

Engineer and Manager's Office,
Albion Street,
Hanley,
Stoke-on-Trent.

CONTRACTS

BOROUGH OF EVESHAM.

STREET LIGHTING.

TENDERS are invited for the SUPPLY and INSTALLATION of the FOLLOWING:

(a) 33 200-W Sodium Discharge Lighting Units, together with Auxiliary Equipment and Tubular Steel Columns, mounting height 30ft., on Trunk Road A.435.
(b) 20 Existing Steel Columns converted to 200-W Sodium Discharge Lighting Units, together with Auxiliary Equipment, on Trunk Road A.433.
(c) 41 140-W Sodium Discharge Lighting Units, together with Auxiliary Equipment and Tubular Steel Columns, mounting height 25ft., on Main Road A.44.

Plans and Conditions of Contract may be inspected at, and Specifications, Bills of Quantities and Forms of Tender may be obtained from, the Borough Surveyor, 106 High Street, Evesham, on receipt of a deposit of £2 2s., returnable after receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Street Lighting," must be received by the undersigned not later than Noon on WEDNESDAY, 7th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

N. F. DAVIES,
Town Clerk.

Town Clerk's Office,
110 High Street,
Evesham.
3rd November, 1960.

BOROUGH OF NEWCASTLE-UNDER-LYME.

BRADWELL COUNTY SECONDARY MODERN SCHOOL.

SURFACE WATER SEWER AND TENNIS COURTS.

TENDERS are invited for the CONSTRUCTION of approx. 250 lin. yd. of 15in. dia. CONCRETE PIPE SURFACE WATER SEWER, Manholes, and incidental works, and FIVE TENNIS COURTS at the ABOVE SCHOOL.

The work on the Tennis Courts comprises Excavation and Grading, Land Drainage Work, the Provision and Consolidation of Burnt Colliery Shale, Bituminous Macadam Surfacing and Chain Link Fencing.

Plans may be inspected and Tender documents obtained from the Office of the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle-under-Lyme, Staffs.

Tender Forms (in duplicate) and Bill of Quantities must be completed and returned to me not later than 12 Noon on MONDAY, 5th December, 1960, in a plain sealed envelope endorsed "Tender—Bradwell County Secondary Modern School—Surface Water Sewer and Tennis Courts."

C. J. MORTON,
Town Clerk.

CATERHAM AND WARLINGHAM URBAN DISTRICT COUNCIL.

RESURFACING OF CARRIAGEWAYS AND FOOTPATHS TO VARIOUS ROADS AT WARLINGHAM.

TENDERS are invited from road surfacing contractors for the CARPETING of approx. 8,300 sq. yd. of CONCRETE CARRIAGEWAYS, 3,545 sq. yd. of TARMACADAM CARRIAGEWAY and 2,800 sq. yd. of FOOTPATHS, together with Repairs to Kerbs and Carriageways, Resealing of Joints in Concrete Roads, and other minor works.

The surfacing material is to be machine-laid and shall be either of a proprietary specification or in accordance with the relevant British Standard Specifications, and shall be to the approval of the Engineer and Surveyor.

Forms of Tender, Specification and Bills of Quantities may be obtained, and Conditions of Contract inspected, on application to the Engineer and Surveyor, Council Offices, Caterham.

Sealed Tenders, in the envelope provided, are to be returned to the undersigned not later than 4 p.m. on FRIDAY, 9th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. J. SMERDON,
Clerk of the Council.

Council Offices,
Caterham.

HALE URBAN DISTRICT COUNCIL.

ROAD RECONSTRUCTION WORKS.

FIXED-PRICE TENDERS are invited for the FOLLOWING RECONSTRUCTION WORKS:

(a) Chapel Lane (Wicker Lane to Tithebarn Road)—approx. length 950ft.
(b) Grove Lane (Meadow Way to near Wellfield Lane)—approx. length 830ft.

Tendering documents and further information regarding either or both of the above obtainable from the Engineer and Surveyor on payment of £2, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be in plain sealed envelopes endorsed "Tender—Roadworks," and reach me by 1st DECEMBER, 1960.

R. W. HORSFALL,
Clerk of the Council.

Council Offices,
Hale,
Cheshire.

NORTH DEVON WATER BOARD.

CONTRACT NO. 102.

CONSTRUCTION OF STIBB CROSS WATER TOWER.

TENDERS are invited from experienced contractors for the CONSTRUCTION of a REINFORCED CONCRETE WATER TOWER to contain 10,000 gallons at THORN MOOR, near Stibb Cross, in the Parish of Buckland Brewer, at a point approx. seven miles S.S.W. of Bideford.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Chief Engineer (North), Grenville House, 9 Boutport Street, Barnstaple (at whose Office the Drawings may be inspected), upon payment, by cheque only, of Two Guineas deposit, which will be repaid upon receipt of a bona-fide Tender and the return of all documents and Drawings supplied.

Tenders, in plain sealed envelopes endorsed "Tender for Contract No. 102," to be sent to the undersigned not later than 12 Noon on the 12th DECEMBER, 1960.

The Board does not bind itself to accept the lowest or any Tender.

R. T. SHEARS,
Clerk to the Board.

4 Barnfield Crescent,
Exeter.

CONTRACTS

N.A.T.O. COMMON INFRASTRUCTURE.

SLICE VIII.

NAVAL BASE INSTALLATIONS.

Final notice is hereby given that INTERNATIONAL COMPETITIVE BIDS will be invited on or about 28th December, 1960, for the SUPPLY and INSTALLATION of JETTY OIL FLOW-BOOM EQUIPMENT at a P.O.L. Storage Depot to be built in the CAMPBELTOWN area of Scotland.

The approx. cost of the contract will be £32,000, and will comprise:—

One complete Oil Flow-Boom Equipment for Seven 10in. Hose Connections and including One Light Derrick.

The work will be carried out as one contract, which will be undertaken as a sub-contract within the framework of the main contract for the construction of the depot. Bids for the main contract will be invited shortly.

It should be noted that the importation of labour from sources outside of the United Kingdom may be subject to restriction, and that permission could in any case only be given on an undertaking that the contractor would pay rates of wages and observe hours and conditions of labour not less favourable than those established for U.K. labour for the trade or industry in the same area.

The closing date for the receipt of bids will be 28th FEBRUARY, 1961.

Firms wishing to bid must formally notify their desire by application to the address below by 28th NOVEMBER, 1960.

Within one week after the closing date for the receipt of applications to bid, firms wishing to be invited must forward the following information:—

(i) Statement of financial resources and evidence of financial stability.
(ii) Details of recent major contracts completed for work of a comparable nature, including an indication of the value of each.

Inquiries regarding bidding should be addressed to Director - General, Navy Works, ADMIRALTY, Chamberlain Way, Pinner, Middlesex, England, quoting reference NWD/Infra/19 (Sub-Contract Flow-Boom Equipment).

N.A.T.O. COMMON INFRASTRUCTURE.

SLICE VIII.

NAVAL BASE INSTALLATIONS.

Final notice is hereby given that INTERNATIONAL COMPETITIVE BIDS will be invited on or about 28th December, 1960, for the SUPPLY and INSTALLATION of PUMPING EQUIPMENT at a P.O.L. Storage Depot to be built in the CAMPBELTOWN area of Scotland.

The approx. cost of the contract will be £32,000, and will include:—

(a) For duty on furnace fuel oil:—
  Three Steam Turbine driven Centrifugal Pumps about 1,100 cubic metres per hour capacity each.
  One Steam driven Reciprocating Pump about 80 cubic metres per hour capacity.
(b) For duty on white oils:—
  Three Electric Motor driven Centrifugal Pumps about 50 cubic metres per hour capacity each.
  Three Electric Motor driven Centrifugal Pumps about 22 cubic metres per hour capacity each.
(c) For duty on ballast:—
  One Electric Motor driven Screw Displacement Pump about 50 cubic metres per hour capacity.
(d) For duty on water:—
  One Electric Motor driven Centrifugal Pump about 41 cubic metres per hour capacity.
  One Diesel Engine driven Ditto Ditto.

The work will be carried out as one contract, which will be undertaken as a sub-contract within the framework of the main contract for the construction of the depot. Bids for the main contract will be invited shortly.

It should be noted that the importation of labour from sources outside of the United Kingdom may be subject to restriction, and that permission could in any case only be given on an undertaking that the contractor would pay rates of wages and observe hours and conditions of labour not less favourable than those established for U.K. labour for the trade or industry in the same area.

The closing date for the receipt of bids will be 28th FEBRUARY, 1961.

Firms wishing to bid must formally notify their desire by application to the address below by 28th NOVEMBER, 1960.

Within one week after the closing date for the receipt of applications to bid, firms wishing to be invited must forward the following information:—

(i) Statement of financial resources and evidence of financial stability.
(ii) Details of recent major contracts completed for work of a comparable nature, including an indication of the value of each.

Inquiries regarding bidding should be addressed to Director - General, Navy Works, ADMIRALTY, Chamberlain Way, Pinner, Middlesex, England, quoting reference NWD/Infra/19 (Sub-Contract Pumps).

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

OVERALLS.

TENDERS are invited for the SUPPLY of the FOLLOWING:

470 Suits of Navy Blue Drill Overalls, X3111, or similar quality, comprising S.B. Jacket and B.B. Trousers, with detachable buttons and with "S.S.C." embroidered in 1in. red lettering on each side of jacket collar and at top of bib. Complete list of sizes will be supplied to the successful tenderer.

Forms of Tender are obtainable from the Director of Public Cleansing, 95 London Road, Southend-on-Sea, upon application.

Tenders, to be received by 3 p.m. on MONDAY, 5th December, 1960, are to be addressed to the TOWN CLERK, Municipal Buildings, Southend-on-Sea, Essex, in plain sealed envelope endorsed "Tender for Overalls," and should be accompanied by a sample of the material offered.

The Corporation do not bind themselves to accept the lowest or any Tender.

CITY OF MANCHESTER.

TENDERS invited for the ERECTION of a BOWLS PAVILION at PHILIPS PARK, BRADFORD.

Bill of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by DECEMBER 5th.

CITY OF MANCHESTER.

TENDERS are re-invited for the SUPPLY of ROAD DANGER LAMPS during the 12 months commencing 1st January, 1961.

Tender Forms, returnable by 1st DECEMBER, 1960, from the CITY SURVEYOR, Town Hall, Manchester, 2.

CONTRACTS

ANGUS COUNTY COUNCIL.

LOCH LEE WATER SUPPLY FIRST PHASE—DISTRIBUTION MAINS.

CONTRACTS NOS. 6/2, 7/1, ETC.

TENDERS are shortly to be invited for the ABOVE CONTRACTS, which comprise Supplying and Laying approx. 1½ miles of 12in. Steel and 14 miles of 12in., 9in., 6in., 4in., 3in. and 2in. dia. Asbestos-Cement Pipes.

Contractors wishing contract documents should apply to the County Engineer, County Buildings, Forfar, not later than 30th NOVEMBER, 1960.

IAN A. MACKNIGHT,
County Clerk.

County Buildings,
Forfar.

MONTGOMERYSHIRE COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

The Montgomeryshire County Council is prepared to receive TENDERS for the year ending 31st March, 1962, for the FOLLOWING:—

(1) Road Stone, Tarmacadam and Bituminous Macadam.
(2) Refined Tar, Bitumen and other Compounds for Surface Treatment of Roads.
(3) Glazed Socketed and Concrete Pipes, Concrete Kerbs and Paving Flags.
(4) Cement.
(5) Hire of Rolling Plant.
(6) Haulage.
(7) Hire of Tractors and ancillary Equipment.

Specification and Form of Tender can be obtained on receipt of a stamped addressed envelope, on application to the undersigned, and applicants are asked to state for which item they wish to tender. Tenders, sealed and endorsed, must be delivered, in the envelope provided, to the County Clerk's Office, Welshpool, by the First Post on DECEMBER 12th, 1960.

The Council does not bind itself to accept the lowest or any Tender.

MEURIG J. DAVIES,
County Surveyor.

County Surveyor's Department,
County Offices,
Welshpool.
10th November, 1960.

COUNTY BOROUGH OF BLACKPOOL.

TENDERS (by 2.30 p.m., FRIDAY, 2nd December) are invited for the IMPROVEMENT of ST. WALBURGAS ROAD, between Newton Drive and Poulton Road, comprising the following, together with Footpath Works:—

(a) Widening, Reconstruction in part, and Surfacing for a length of approx. 620 lin. yd.
(b) Construction of a new Road through open ground for a distance of approx. 713 lin. yd.
(c) Construction of a 150yd. dia. Roundabout, Carriageway Surfaced with Hot Rolled Asphalt.

Provision is made in the Bill of Quantities for alternative form of carriageway construction.

Particulars and Form of Tender from ARTHUR HAMILTON, B.Sc., Borough Surveyor, P.O. Box 17, Municipal Buildings, Blackpool, on payment of £2 deposit.

BOROUGH OF RAWTENSTALL.

ASPHALT SURFACING—BACUP ROAD (A.681) AND BURNLEY ROAD EAST (B.6238).

TENDERS are invited for the LAYING of approx. 5,030 sq. yd. of 1½in. thick HOT ROLLED ASPHALT CARPET, together with approx. 105 tons of HOT ROLLED ASPHALT REGULATING COURSE.

Contract documents may be obtained from the Borough Engineer and Surveyor, Town Hall, Rawtenstall.

Sealed Tenders, in the envelope provided, must be returned to the undersigned not later than 12 Noon on MONDAY, the 28th November, 1960.

(Signed) COLIN CAMPBELL,
Town Clerk.

Town Hall,
Rawtenstall,
Rossendale,
Lancs.
November, 1960.

BOROUGH OF WEYMOUTH AND MELCOMBE REGIS.

MAIN DRAINAGE OF JORDAN VALLEY—STAGE II. W29/2 CONTRACT 6.

TO CIVIL ENGINEERING AND PUBLIC WORKS CONTRACTORS.

The above Council is prepared to receive TENDERS from experienced contractors for the CONSTRUCTION of approx. 9,900yd. of small dia. SEWERS and Rising Main, the Construction of a Sewage Pumping Station, and other ancillary work.

Particulars and Specifications may be obtained, and Plans may be inspected at the Offices of the Council's Consulting Engineers, MESSRS. HOWARD HUMPHREYS AND SONS, West Street, Epsom, Surrey, on and from Monday, 21st November, 1960, until Friday, 9th December, 1960, between the hours of 10 a.m. and 4 p.m., upon the payment of a deposit of Five Guineas, by cheque made payable to the Weymouth Borough Council, which deposit, after the Council has reached a decision, will be returned to each contractor who has submitted a bona-fide Tender which has not subsequently been withdrawn and has returned all documents and Drawings.

Tenders are to be on the official form and are to be delivered to the undersigned, in sealed envelopes endorsed "Tender for Main Drainage of Jordan Valley —W29/2 Contract 6," but bearing no name or other mark indicating the sender, not later than Noon on FRIDAY, 16th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

E. J. JONES,
Town Clerk.

Town Clerk's Office,
Weymouth,
Dorset.

MANCHESTER CORPORATION WATERWORKS.

TENDERS invited for the SUPPLY and DELIVERY of the FOLLOWING:—

Specification No. 94.—Sluice Valves (3in. to 12in. diameter).
Specification No. 95.—Cast-Iron Manhole Covers, Valve Hydrant Boxes, etc.
Specification No. 96.—Cast-Iron Pipe Fittings to B.S.S. Class "C" Schedule.

Tender Forms (returnable by 30th NOVEMBER, 1960) and Specifications, etc., obtainable from the SECRETARY, Waterworks Offices, Town Hall, Manchester, 2.

CONTRACTS

FLINTSHIRE COUNTY COUNCIL.

PAINTING OF BRIDGES.

Separate TENDERS are invited for CLEANING BY GRIT or SANDBLASTING AND WIRE BRUSHING and the REPAINTING of the FOLLOWING:

(a) Queensferry Bridge, on the Dolgellau-South of Birkenhead Trunk Road A.494; and
(b) Voryd Bridge, Rhyl, on the A.548 North Wales Coast Road.

Separate Forms of Tender and Contract documents may be obtained from the County Surveyor, Llwynegrin, Mold, Flintshire, on payment of £5 deposit, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

The documents may be inspected in respect of both bridges at the County Surveyor's Office, Llwynegrin, Mold, and in respect of Voryd Bridge, also at the Denbighshire County Surveyor's Office, Clwyd Street, Ruthin, during normal working hours, excluding Saturdays.

Tenders, on the forms provided, must reach my Office by not later than Noon, 7th DECEMBER, 1960.

W. HUGH JONES,
Clerk of the Flintshire County Council.

County Buildings,
Mold.

SURREY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for MAKING-UP MANOR LEA, MILFORD, with Tarmacadam Surfacing, Footways, Kerbing, etc. (approx. length 270yd.).

Documents, obtainable from Office of County Engineer, County Hall, Kingston-upon-Thames, where Drawings may be inspected, are returnable by 9th DECEMBER, 1960, to the CLERK OF THE COUNCIL, County Hall, Kingston-upon-Thames.

No Tender will be received except in a plain sealed envelope bearing the words "Tender for Manor Lea, Milford."

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.

DECK CHAIRS, CANVAS, ETC.

TENDERS are invited for the SUPPLY of the FOLLOWING:—

(1) 2,000 Wooden Deck Chairs, 17in. Turkey Red Canvas, or 16in. Synthetic Material (to be chosen from samples submitted).
(2) 500 Wooden Deck Chairs, Frames only.
(3) (a) 12,000yd. Cotton Deck Chair Canvas, 14oz., 36in., 17in. wide and selvedged, vat-dyed — 6,000yd. Orange and 6,000yd. Dark Green. Colours to be approved by the Borough Engineer.
or
(b) 12,000yd. Synthetic Material 16in. wide.
(4) 800yd. Striped Cotton Deck Chair Canvas, 14oz., 36in., 17in. wide and selvedged.
(5) 1,000yd. Green Canvas, 18oz., 36in.

Specification, etc., for chairs obtainable from Borough Engineer. Tender Forms are issued for Items (1) and (2) only.

Price to include delivery to Beach Depot, Norwich Road, Bournemouth. Delivery of canvas to be completed between April and July, 1961, chairs first week of April, 1961. Samples must be submitted.

The Council does not undertake to accept the lowest or any Tender.

Tenders, in plain sealed envelopes, appropriately endorsed, but bearing no mark or name indicating the sender, must reach me by the 7th DCEMBER, 1960.

A. LINDSAY CLEGG,
Town Clerk.

Bournemouth.

BOROUGH OF HORNSEY.

TENDERS are invited for the FOLLOWING:—

(a) Supplying and Laying of Hot Rolled Asphalt Wearing Course (Granite or Slag Aggregate) 1¼in. thick. Approx. 500 tons.
(b) Supply only of Hot Rolled Asphalt Base Course (Granite or Slag Aggregate). Approx. 800 tons.

Documents from Borough Engineer, Town Hall, The Broadway, N.8, to be returned to me by Noon on MONDAY, 5th December, 1960.

W. B. MURGATROYD,
Town Clerk.

CITY OF BIRMINGHAM.

TO PUBLIC WORKS CONTRACTORS.

The PUBLIC WORKS COMMITTEE invite TENDERS on a Fixed-price Basis for Measure and Value Contracts for the FOLLOWING:

(a) Reconstruction of Bordesley Green (Part) from Blake Lane to Belchers Lane.
(b) Kings Road Widening from Kingstanding Road to Queslett Road.
(c) Aldridge Road Widening (Part) from College Road to Canal Bridge.
(d) Construction of Second Carriageway and Sewer at The Middle Ring Road (Part), Ladywood, between Morville Street and Grosvenor Street West.

Copies of the Specifications, Bills of Quantities and Forms of Tender may be obtained on payment of £2 2s. for each Contract at the Office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. The deposits will be returned on receipt of bona-fide Tenders.

Plans for the Roadworks can be seen at Room 339 and those for the Sewer Work in connection with Contract (d) at Room 39, Civic Centre, Birmingham, 1.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.21), Council House, Birmingham, 1, not later than 12 Noon on WEDNESDAY, 30th November, 1960, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

BENFLEET URBAN DISTRICT COUNCIL.

PROVISION OF OMNIBUS PASSENGER SHELTERS.

TENDERS are invited for the SUPPLY or SUPPLY and ERECTION of Eight CANTILEVER TYPE SMALL SHELTERS on various sites within the Urban District. Further details can be obtained from the Engineer and Surveyor at the address below.

Tenders to be returned to me by not later than 16th DECEMBER.

D. GRUDGINGS,
Clerk of the Council.

Council Offices,
Thundersley.

CONTRACTS

WEST SUSSEX COUNTY COUNCIL.

A.27 TRUNK ROAD—IMPROVEMENT NEAR FORMER POLING BRICKWORKS, ARUNDEL.

Public works contractors wishing to TENDER for the ABOVE ROAD IMPROVEMENT SCHEME, involving the Widening and Realignment of the existing Carriageway to 33ft. over a length of 500yd., the Construction being either Lean-mix Concrete Granular Base or Premixed Waterbound Macadam Base with a Bituminous Surfacing, should submit their names to MAURICE MILNE, B.Sc., M.I.C.E., M.I.Mun.E., A.M.I.Struct.E., A.M.T.P.I., County Engineer and Surveyor, County Hall, Chichester, not later than First Post on MONDAY, 21st November, 1960.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.
November, 1960.

CHESHIRE COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

ADSWOOD-STOCKPORT CLASS III ROAD—CHEADLE BIRD HALL LANE IMPROVEMENT.

TENDERS are invited for the LOWERING of the CARRIAGEWAY under the Railway Bridge and the CONSTRUCTION of a REINFORCED CONCRETE PEDESTRIAN SUBWAY through the Railway Embankment adjacent to the Bridge, together with Incidental Drainage and Fencing.

Tendering documents may be obtained from the undersigned on payment of a deposit of Two Guineas (£2 2s.), by crossed cheque made payable to the Cheshire County Council, which deposit will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be forwarded in plain sealed envelopes endorsed "Bird Hall Lane Improvement," to the Clerk of the County Council, County Hall, Chester, and must be received by him not later than Noon on TUESDAY, 6th December, 1960. No Tenders received after the time stated will be considered.

The County Council do not bind themselves to accept the lowest or any Tender.

C. G. DAY,
County Surveyor.

10th November, 1960.

BOROUGH OF GODALMING.

CLASSIFIED ROADS PROGRAMME, 1960/61.

HURTMORE ROAD SURFACE WATER SEWER.

TENDERS are invited from experienced contractors for the CONSTRUCTION of a SURFACE SEWER within the Borough, comprising the FOLLOWING:

Approx. 266 lin. yd. of 9in. Salt Glazed Ware Pipes:
Approx. 555 lin. yd. of 12in. Granolithic Precast Concrete Pipes, together with appurtenant works such as Manholes.

Contract documents may be obtained from the Borough Surveyor, Branksome, Filmer Grove, Godalming, on payment of Two Guineas deposit, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Hurtmore Road Surface Water Sewer," must be delivered to me not later than 10 a.m. on MONDAY, the 12th December, 1960.

The Council does not bind itself to accept the lowest or any Tender.

R. C. HODGINS,
Town Clerk.

Municipal Buildings,
Bridge Street,
Godalming.
10th November, 1960.

BOROUGH OF SUTTON COLDFIELD.

HIGHWAYS ACT, 1959.

PARK VIEW ROAD AND JERVIS CRESCENT.

TENDERS are invited for the MAKING-UP of the UNADOPTED PARTS of the ABOVE ROADS.

Tender documents may be obtained from the Borough Engineer on payment of a deposit of £2 (Two Pounds), which is returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Park View Road and Jervis Crescent," must be delivered to the undersigned not later than Noon on MONDAY, 5th December, 1960.

J. P. HOLDEN,
Town Clerk.

The Council House,
Sutton Coldfield.
9th November, 1960.

CATERHAM AND WARLINGHAM URBAN DISTRICT COUNCIL.

LIMPSFIELD ROAD (B.269) IMPROVEMENT.

WARLINGHAM GREEN TO CHELSHAM.

TENDERS are invited for the WIDENING and IMPROVEMENT of Limpsfield Road from Warlingham Green to Chelsham.

The works include the Realignment of approx. 1,700 lin. yd. of Kerb, 2,000 cu. yd. of Excavation, the Construction of 4,500 sq. yd. of new Reinforced Concrete Carriageway, 11,500 sq. yd. of Hot Rolled Asphalt Surfacing, the Construction of 3,000 sq. yd. of new Bituminous Macadam Footpaths, and other incidental works.

Copies of the Bill of Quantities, Specification, Drawings and Form of Tender may be obtained on application to the Engineer and Surveyor, Council Offices, Caterham, with a deposit of £2 2s., which is returnable upon receipt of a bona-fide Tender.

Tenders, in the envelope provided, are to be returned to the undersigned not later than 4 p.m. on TUESDAY, 6th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. J. SMERDON,
Clerk of the Council.

Council Offices,
Caterham,
Surrey.

WORTLEY RURAL DISTRICT COUNCIL.

OVER-ROOFING OF SPOONER MK. 4 BUNGALOWS.

TENDERS are invited for OVER-ROOFING with INSULATION and FELTING, together with all ancillary works, to 79 occupied SPOONER MK. 4 BUNGALOWS.

Specification, Bills of Quantities and Form of Tender to be obtained from the Engineer and Surveyor, Council Offices, Grenoside, near Sheffield.

Tenders to be delivered to the undersigned not later than 12 Noon, THURSDAY, 1st December, 1960.

ADRIAN M. KELLY,
Clerk of the Council.

CONTRACTS

STAFFORDSHIRE COUNTY COUNCIL.

AMBULANCE SERVICE.

TENDERS FOR UNIFORMS, ETC.

The Staffordshire County Council invite **TENDERS** for the **SUPPLY** of the **UNDERMENTIONED ARTICLES** of **UNIFORM** to the approx. numbers stated:—

(a) 250 Pairs of Trousers.
(b) Five Skirts.
(c) 130 Tunics.
(d) 175 Lightweight Jackets.
(e) 130 Caps.
(f) 60 Greatcoats.
(g) 45 Raincoats.

Forms of Tender can be obtained from the County Medical Officer of Health, County Buildings, Stafford, and Tenders must be received by the undersigned not later than the 3rd **DECEMBER, 1960.**

T. H. EVANS,
Clerk of the County Council.

County Buildings,
Stafford.

HERTFORDSHIRE COUNTY COUNCIL.

RECONSTRUCTION OF ROAD BRIDGE.

TENDERS are invited for the **RECONSTRUCTION** of a **ROAD BRIDGE** over the River Colne Channel (generally dry), near the entrance to **NORTH MYMMS PARK.**

The bridge is on an unclassified road carrying light traffic between the Park entrance and North Mymms Church.

The work comprises the Demolition of the existing Steel Girder Bridge of span 30ft. and roadway width 12ft., and the Construction of a New Reinforced Concrete Slab Deck on R.S.J.s, using the existing Abutments, together with Road Surfacing in Gravel Asphalt, Kerbs, etc., and the Provision of a Temporary Road Diversion Structure.

Contract documents and Drawings may be obtained from the County Surveyor, Herts. County Council, County Hall, Hertford.

Tenders are to be returned to the **CLERK OF THE COUNTY COUNCIL** by 10 a.m. on **14th DECEMBER, 1960.**

The County Council does not bind itself to accept the lowest or any Tender.

BOROUGH OF EDMONTON.

TENDERS are invited for the **CONSTRUCTION** of a **NINE-STOREY BLOCK** of **40 MAISONNETTES** and **FIVE AGED PERSONS' DWELLINGS,** within the Borough.

A copy of the Drawings, Conditions of Tender and Conditions of Contract may be inspected at the Office of the Borough Architect.

Applications for Form of Tender and Bills of Quantities, accompanied by a deposit of Two Guineas (which will be refunded only on receipt of a bona-fide Tender and other Contract documents), must be made to the Borough Architect, Town Hall, Edmonton, not later than First Post on **FRIDAY, 25th November, 1960.**

Tenders, sealed in the endorsed envelope provided, must be delivered to the undersigned not later than 12 Noon on **TUESDAY, 13th December, 1960.**

The Council do not bind themselves to accept the lowest or any Tender.

H. BACKHOUSE,
Town Clerk.

Town Hall,
Edmonton, N.9.
15th November, 1960.

CITY OF HEREFORD.

CONSTRUCTION OF CITY MARKETS OFFICE BUILDING.

TENDERS are invited for the **CONSTRUCTION** of a **TWO-STOREY MARKETS OFFICE BUILDING** having an approx. floor area of 2,200 sq. ft.

Contract documents may be obtained from the Office of the City Surveyor, MR. F. MARGERISON, A.M.I.C.E., on deposit of Two Guineas, refundable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelope provided, and bearing no mark or indication of the sender, must be delivered to me not later than 9 a.m. on **MONDAY, 28th November, 1960.**

The Council do not bind themselves to accept the lowest or any Tender.

J. A. WESTON,
Town Clerk.

Town Hall,
Hereford.
November, 1960.

THE URBAN DISTRICT COUNCIL OF ABERDARE.

(1) **CONCRETE APRONS AND CANOPIES.**
(2) **FENCING.**

TENDERS are invited from experienced contractors for **(1) CONSTRUCTING CONCRETE APRONS** and **CANOPIES** to **DWELLINGS;** and **(2) ADDITIONAL FENCING** at **MORIAH PLACE HOUSING SITE, LLWYDCOED,** under the supervision of **MESSRS. T. ALWYN LLOYD AND GORDON,** Architects, Cardiff.

Tender documents may be obtained on payment of a deposit of £1 for each of the works to the Engineer and Surveyor, Vestry Hall, Aberdare.

Tenders, in plain sealed envelopes bearing no mark or indication of the sender, but endorsed "Aprons and Canopies" or "Fencing—Llwydcoed," must reach me on or before **9th DECEMBER, 1960.**

D. G. JAMES,
Clerk of the Council.

Town Hall,
Aberdare.
10th November, 1960.

ORPINGTON URBAN DISTRICT COUNCIL.

SURFACE WATER DRAINAGE SCHEME—PART 2.

FIXED-PRICE TENDERS are invited for the **CONSTRUCTION** of the **ABOVE SCHEME,** comprising approx. 3,677yd. of 45in. down to 9in. dia. Concrete and Salt Glazed Pipes. About 962yd. of this will be constructed in tunnel.

Tenderers must have had considerable experience of this type of work; also the construction of pipeline in tunnel.

Contractors desirous of tendering for this work should submit their names to me not later than the 3rd **DECEMBER, 1960.** Applications should be accompanied by a deposit of £2, which will be returned on receipt of a bona-fide Tender, together with all documents supplied, and not subsequently withdrawn.

L. W. FREEMAN,
Engineer and Surveyor.

Civic Offices,
The Walnuts,
High Street,
Orpington, Kent.
10th November, 1960.

CONTRACTS

BOROUGH OF LUTON.

LEAGRAVE HIGH STREET IMPROVEMENT.

TENDERS invited for **IMPROVEMENT WORKS,** including approx. 550yd. 9in. Surface Water Sewer, 1,000 cu. yd. Excavation, 800 sq. yd. Widening to Carriageway, and 1,200 sq. yd. Footpath Construction.

Tender documents from Borough Engineer, Town Hall, Luton, on payment of £2 2s. deposit, returnable after receipt of bona-fide Tender not subsequently withdrawn. Cheques payable Luton Corporation.

Tenders to **TOWN CLERK,** Town Hall, Luton, by Noon, **MONDAY, 28th November, 1960.**

BOROUGH OF LUTON.

CHALTON TRUNK SEWER.

CONTRACT NO. 16.

TENDERS invited for **CONSTRUCTION** of approx. 2,960 lin. yd. 39in. dia. **CONCRETE SEWER IN TUNNEL,** 133 lin. yd. 39in. dia. **CONCRETE SEWER IN TRENCH,** 655 lin. yd. twin 21in. dia. **CAST-IRON SEWER IN TRENCH,** 19 Concrete Segment Manholes and an Entrance Chamber to an Inverted Siphon. Works to be carried out between Leagrave Common and Chalton Village, five miles N.W. of Luton.

General Conditions of Contract, Specification and Bills of Quantities obtainable from the Council's Consulting Engineers, **MESSRS. J. D. AND D. M. WATSON, MM.I.C.E.,** 67 Tufton Street, Westminster, S.W.1, on or after 21st November, 1960, on payment of a deposit cheque (payable Luton Corporation) of Ten Guineas, refundable only to contractors who submit bona-fide Tenders and return all documents and drawings.

Tenders to **TOWN CLERK,** Town Hall, Luton, by Noon on **MONDAY, 2nd January, 1961.**

BOROUGH OF WREXHAM.

DEMOLITION OF GLYNN CINEMA, STABLES AND WALL, AND CONSTRUCTION OF CAR PARK.

TENDERS are invited for the **ABOVE** in the **FOLLOWING ALTERNATIVES:—**

(a) Demolition of Glynn Cinema.
(b) Demolition of Stables and Wall, and Construction of Car Park.
Or
(c) Demolition of Glynn Cinema. Stables and Wall, and Construction of Car Park.

Applications for Specification, Tender Forms, etc., from the **BOROUGH ENGINEER AND SURVEYOR,** "Bodhyfryd," 31 Chester Street, Wrexham, enclosing deposits of £1 1s. for each contract.

Closing date for receipt of Tenders, 12 Noon, 9th **DECEMBER, 1960.**

The Council does not bind itself to accept the lowest or any Tender.

Guildhall,
Wrexham.
November, 1960.

WOODBRIDGE URBAN DISTRICT COUNCIL.

SUPPLY OF ELECTRIC PUMP AT WOODBRIDGE WATERWORKS.

The Council invite **TENDERS** for the **SUPPLY** of **ONE SELF-PRIMING CENTRIFUGAL PUMP,** coupled with Flexible Coupling to approx. a 10-h.p. 400-V 3-phase 50-cycles Electric Motor, mounted on a Cast-iron Bedplate, complete with Matching Flanges, Footvavle and Strainer.

A full Specification can be obtained on application from the Council's Water Engineer, Eden Lodge, Woodbridge, Suffolk.

Tenders, in suitably endorsed envelopes, should be received by the **CLERK OF THE COUNCIL** at the above address by First Post on **TUESDAY, 29th November, 1960.**

SKEGNESS URBAN DISTRICT COUNCIL.

LINCOLN ROAD—FOUL SEWER EXTENSION.

FIXED-PRICE TENDERS are invited from experienced contractors for the **SUPPLY** and **LAYING** of 283 lin. yd. 12in. dia. **SPUN-IRON PIPE SEWER** (average depth 15ft.), 100 lin. yd. 9in. dia. **S.G.W. PIPE SEWER** (average depth 8ft.), Five Reinforced Precast Concrete Manholes, and ancillary works.

Specification, Bills of Quantities and Tender documents may be obtained from, and Drawings inspected at, the Office of the Engineer and Surveyor, Town Hall, Skegness, during usual office hours. A fee of £2 is payable and returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to the undersigned, in a plain sealed envelope endorsed "Lincoln Road Foul Sewer," not later than Noon on **SATURDAY, 10th December, 1960.**

The Council do not bind themselves to accept the lowest or any Tender.

MILTON TURNER,
Clerk of the Council.

Town Hall,
Skegness.
11th November, 1960.

LLYN CONWY WATER BOARD.

REGIONAL WATER SCHEME.

INTAKE WORKS, TREATMENT WORKS AND RESERVOIR.

REFERENCE C.19/2. CONTRACT 4.

TO CIVIL ENGINEERING CONTRACTORS EXPERIENCED IN WATERWORKS CONSTRUCTION.

TENDERS are invited for the **CONSTRUCTION,** in **NORTH WALES,** of a **LAKE INTAKE,** a **TREATMENT WORKS** for 0.75m. gallons per day, and a **TREATED WATER RESERVOIR** of 150,000 gallons capacity, together with Access Road, Buildings, Mains, and other incidental works.

Contract documents may be obtained from the Consulting Engineers, **MESSRS. HOWARD HUMPHREYS AND SONS,** West Street, Epsom, Surrey (where Drawings may be seen or ordered), on or after Monday, 14th November, 1960, between 10 a.m. and 4 p.m., until Friday, 25th November, 1960, upon payment of Five Guineas made payable to the Llyn Conwy Water Board. This deposit will be returned on submission of a bona-fide Tender not subsequently withdrawn.

Tenders are to be made on the official form and must be delivered to the undersigned, in plain sealed envelopes endorsed "Tender for Treatment Works," not later than Noon on **FRIDAY, 30th December, 1960.**

The Council do not undertake to accept the lowest or any Tender.

W. BROOKES PARRY,
Clerk of the Llyn Conwy Water Board.

Council Offices,
34 Water Street,
Rhyl,
North Wales.

CONTRACTS

COUNTY BOROUGH OF SWANSEA.

CASWELL VALLEY SEWERAGE SCHEME—PART I.

TENDERS are invited for: (a) the **PROVISION** and **LAYING** of approx. 368 lin. yd. of **SALT GLAZED WARE PIPE SEWERS** from 6in. dia. to 12in. dia., 162 lin. yd. of **SPUN-IRON PIPE RISING MAIN** 6in. dia., with Manholes, Hatchboxes, etc.; and (b) the **CONSTRUCTION** of a **REINFORCED CONCRETE PUMPING STATION.**

The Drawings may be seen at the Office of the Borough Engineer and Surveyor, The Guildhall, Swansea, from whom copies of the Conditions of Contract, Specification, Bills of Quantities and Forms of Tender may be obtained on deposit of the sum of £5, which will be returned to bona-fide tenderers.

Tenders, in plain sealed envelopes not bearing any name or mark indicating the sender, addressed to me and endorsed "Caswell Valley Sewerage Scheme—Part I," should be delivered by Registered Post not later than Noon on **SATURDAY, 10th December, 1960.**

The Corporation do not bind themselves to accept the lowest or any Tender.

IORWERTH J. WATKINS,
Town Clerk.

The Guildhall,
Swansea.

BOROUGH OF CHESTERFIELD.

STREET LIGHTING, A.61.
EXETER-LEEDS TRUNK ROAD.

TENDERS are invited for the **FOLLOWING:—**

(1) Supply and Delivery of 88 Tubular Steel Columns of 25ft. mounting height, and One Steel Wall Bracket.
(2) Supply and Delivery of 71 x 140-W Sodium Group "A" Medium Angled Side Entry Lanterns to accommodate 140-W Sodium Lamps and Jackets.
(3) Supply and Delivery of 18 Three x 80-W Fluorescent Lanterns, complete with Lamps and Auxiliary Gear for side entry mounting, with an alternative quotation for 18 400-W Colour-corrected Mercury Lanterns complete with Lamps and Auxiliary Gear.
(4) Supply and Delivery of 71 x 140-W Sodium Lamps and Jackets, complete with Capacitors and Ballast.

Contractors may tender separately for any item or all items. Conditions of Contract and Plan may be inspected at the Borough Engineer's Office, Town Hall, Chesterfield. The Specifications, Bills of Quantities and Forms of Tender will be available at the same office during normal office hours upon payment of a deposit of £2 2s., returnable on receipt of a bona-fide Tender and return of all documents. Tenders, in plain sealed envelopes, endorsed "Street Lighting, A.61," to be delivered to the undersigned not later than 1st **DECEMBER, 1960.**

The Council do not bind themselves to accept the lowest or any Tender.

RICHARD CLEGG,
Town Clerk.

Town Hall,
Chesterfield.

BOROUGH OF DAGENHAM.

MARKS GATE COUNTY JUNIOR MIXED SCHOOL.

Building contractors possessing a substantial organisation and who are willing to **TENDER** for the **ERECTION** of the **ABOVE** are invited to submit their names and give full details. From these names a panel of contractors will be chosen and provided with tender documents, which are expected to be available by the end of January, 1961.

The building will be part two-storey and part single-storey in brick and steel-framed construction. The approx. cost is £80,000.

Applications to reach the Borough Surveyor not later than **MONDAY, 28th November, 1960.**

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

BOROUGH OF DAGENHAM.

TRANSPORT WORKSHOPS.

TENDERS are invited from building contractors for the **ERECTION** of a **SINGLE-STOREY BUILDING** consisting of a Main Workshop and Subsidiary Workshops, Offices and Stores, overall size approx. 124ft. x 77ft., at **FRIZLANDS LANE.**

The construction will be steel-framed and some load-bearing brickwork.

Drawings and General Conditions of Contract may be inspected during normal office hours.

Forms of Tender and Bills of Quantities obtainable from the Borough Surveyor on or after 17th November, on payment of £2 2s., refundable on receipt of a bona-fide Tender.

Closing date for receipt of Tenders, Noon, 12th **DECEMBER, 1960.**

The Council do not bind themselves to accept the lowest or any Tender.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

URBAN DISTRICT COUNCIL OF BASILDON.

PROVISION OF TARMACADAM PAVING IN PARKS.

TENDERS will shortly be invited for the **ABOVE CONTRACT,** comprising approx. 1,050 sq. yd. Tarmacadam Paving and 615 lin. yd. Concrete Edging.

Experienced contractors wishing to tender should apply for documents to the Council's **ENGINEER AND SURVEYOR,** 88 Town Square, Basildon, Essex, by not later than **25th NOVEMBER, 1960.**

The application should be accompanied by a deposit of £2 2s. (Two Guineas), which will be returned on receipt of a bona-fide Tender not subsequently withdrawn and the return of all documents.

FAREHAM URBAN DISTRICT COUNCIL.

PEEL COMMON PUMPING STATION.

TENDERS invited from contractors experienced in manufacture of pumping plant for sewage works purposes, for the **SUPPLY** and **INSTALLATION** of 6in. **CENTRIFUGAL SEWAGE PUMP,** Electric Motor, Starting Panel and Control Gear, to replace one of the existing 5in. pumps, at the **ABOVE PUMPING STATION.**

Contract documents obtainable from Engineer and Surveyor, Westbury Manor, Fareham, Hants.

Tenders to me by Noon, 21st **DECEMBER, 1960.**

The Council does not bind itself to accept the lowest or any Tender.

B. W. RANDS,
Clerk to the Council.

Merton,
5 Grove Road,
Fareham, Hants.

CONTRACTS

MERIONETH COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

ANNUAL CONTRACTS, 1961-62.

TENDERS are invited for the UNDERMENTIONED for the financial year commencing 1st April, 1961:—
(a) Tarred and Bitumen Macadam.
(b) Roadstone, Building Stone, Sand, etc.
(c) Road Haulage and Haulage of Materials.
(d) Hire of Rollers and Contractors' Plant.
(e) Road Tar, Asphaltic Bitumen and Bitumen Emulsion.
(f) Concrete Kerbs, Flags and Pipes.
(g) Traffic Signs.
(h) Heating and Planing of Road Surfaces.
(i) Supply and Fixing of Reflecting Roadstuds.
(k) Supply and Laying of Plastic Lines.
(l) Coal for Plant.
(m) Ironmongery, Tools, Brushes, etc.
(n) Surface Dressing of Roads.
(o) Road and Enamel Paint.
(p) Protective Clothing.
(q) Fences, Posts and Gates.

Conditions of Contract and brief Specifications may be obtained by sending a stamped addressed envelope to the County Surveyor, County Offices, Dolgellau, and tenderers should indicate the schedule letter for which forms are required.

Tenders, enclosed in a plain sealed envelope, suitably endorsed, must reach the COUNTY CLERK, County Offices, Penarlag, Dolgellau, not later than MONDAY, the 12th December, 1960.

COUNTY BOROUGH OF WALLASEY.

TENDERS are invited by 10 a.m., TUESDAY, 6th December, 1960, for the SUPPLY and DELIVERY of UNIFORM CLOTHING to the various departments of the Corporation (including Ferries, Motor Bus, Borough Surveyor, Police and Fire Brigade). Full particulars, with Specifications, General Conditions and Forms of Tender, may be obtained from the undersigned.

A. G. HARRISON,
Town Clerk.

Town Hall,
Wallasey.

BOROUGH OF HYTHE.

IMPROVEMENT OF OLD LONDON ROAD—STAGE 2.

Contractors wishing to TENDER for the ABOVE SCHEME, consisting of the Laying of approx. 600 sq. yd. of Hardcore Foundations, 1,000 sq. yd. of Bituminous Macadam, and 300yd. of Footpath Construction, with ancillary works, are requested to submit their names to the Borough Surveyor, at the address below, not later than First Post, WEDNESDAY, 30th November, 1960, and deposit the sum of £5 5s., the refund of which will be conditional upon the submission of a bona-fide Tender, accompanied by all the documents issued. Cheques should be made payable to Hythe Corporation.

It is anticipated that copies of the Form of Tender and Bill of Quantities will be dispatched on or about the 30th November, 1960, and a date will then be specified by which the Tenders must be returned to the undersigned.

The Corporation does not bind itself to accept the lowest or any Tender.

J. NOWELL,
Town Clerk.

Municipal Offices,
Hythe, Kent.
November, 1960.

BOROUGH OF SALE.

PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP of the FOLLOWING STREETS:—
Alma Road, length approx. 203 lin. yd.
Mayfield Avenue, length approx. 40 lin. yd.
Moorfield Grove, length approx. 91 lin. yd.
Somerton Avenue, length approx. 64 lin. yd.
Warwick Drive, length approx. 70 lin. yd.

Specification, Bills of Quantities and Forms of Tender obtainable on payment of a £4 4s. deposit for all five streets, or £1 1s. for each individual street, from the Borough Engineer's Department, Town Hall, Sale, where Plans, Sections and General Conditions of Contract may be inspected.

No Tenders will be received except in the plain sealed envelope provided, endorsed "Tender—Private Street Works," and devoid of any name or mark indicating the sender.

Tenders to reach the undersigned not later than 10 a.m. on THURSDAY, 8th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

BERTRAM FINCH,
Town Clerk.

Town Hall,
Sale.

CITY OF LEICESTER.

SCRAPTOFT (THURNBY) HOUSING ESTATE—CONTRACT NO. 10.

CONSTRUCTION OF ROADS AND SEWERS.

TENDERS are invited from contractors experienced in similar work for the FOLLOWING:
1,900 sq. yd. Concrete Carriageway:
620 lin. yd. 9in. dia. Sewer, together with Concrete Manholes.

Full details and Forms of Tender are available from the undersigned on payment of One Guinea which is returnable on receipt of a bona-fide Tender.

Tenders are to be returned in the official envelope provided by 4.30 p.m. on MONDAY, 5th December, 1960.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

CITY OF MANCHESTER.

TENDERS invited for the ERECTION of SHOWER, TOILET and DRYING ROOM ACCOMMODATION at DEBDALE PARK, GORTON.

Bill of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by DECEMBER 6th.

CORPORATION OF MANCHESTER.

HOUSING COMMITTEE.

TENDERS invited (returnable Noon, 5th DECEMBER, 1960) for the DESIGN, SUPPLY and ERECTION of 230 PRECAST CONCRETE GARAGES with CONCRETE ROOFS, at LANGLEY ESTATE, MIDDLETON.

Documents obtainable from the DIRECTOR OF HOUSING, Town Hall, Manchester, 2.

For Contracts received too late for classification see page 905

APPOINTMENTS VACANT

GOVERNMENT OF EASTERN NIGERIA.

MINISTRY OF WORK.

VACANCY FOR ARCHITECTS.

VACANCIES exist for candidates who are Associate Members of the R.I.B.A. or have an equivalent Commonwealth qualification as Architects in the Public Service of the Eastern Region of Nigeria. Candidates should have at least five years' experience after qualifying. Experience in hospital design and construction is desirable. Experience in tropical work will be an advantage. Candidates must not be less than 30 years of age nor more than 40.

The duties connected with the post will be to prepare sketch plans, working drawings, specifications and contract documents, and to lead a team of Architects and Assistants under the direction of the Senior Architect.

The salary for the post ranges from £1,716 p.a. to £2,166 p.a. The point of entry will depend upon experience. One credit for each year's experience after obtaining the specified qualification for the post is given. Liberal leave and passage conditions.

For further particulars, apply to the RECRUITMENT OFFICER, Eastern Region Office of the Agent-General for Eastern Nigeria, 9 Northumberland Avenue, London W.C.2.

MERIONETH COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING PERMANENT APPOINTMENTS in the County Surveyor's Department:
(a) One Assistant Engineer—Salary Grade A.P.T. IV of the National Joint Council Scales; and
(b) One Assistant Engineer—Salary Grade A.P.T. II of the National Joint Council Scales.

Applicants for appointment (a) should have had good experience in the design and preparation of road and bridge schemes, and be capable of supervising the actual works whether executed by contract or direct labour.

Preference will be given to candidates who are Associate Members of the Institution of Civil Engineers and/or of the Institution of Municipal Engineers.

Applicants for appointment (b) should have had experience in the design and preparation of road and bridge schemes.

Preference will be given to candidates who are suitably qualified and have had previous experience under a County Authority.

Applications, on the Council's Application Form, must be received by the COUNTY CLERK, County Offices, Penarlag, Dolgellau, by not later than MONDAY, 28th November, 1960.

BOROUGH OF ENFIELD.

(Population 109,700. Area 12,400 Acres.)

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF JUNIOR ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE PERMANENT APPOINTMENT at a salary in accordance with Grade A.P.T. I of the National Scheme of Conditions of Service (£645-£815 per annum) with the addition of London Weighting of £15-£40 per annum, according to age. Commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

Applicants should have completed their professional training under the Scheme for the training of Municipal or Civil Engineers. Opportunity will be afforded to gain experience in all phases of Municipal Engineering.

Saturday mornings are normally free of duty.

Application Forms, obtainable from MR. H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middlesex, must be delivered to the undersigned not later than THURSDAY, 24th November, 1960.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield, Middx.

BILLINGHAM URBAN DISTRICT COUNCIL.

APPOINTMENT OF ASSISTANT WORKS SUPERINTENDENT.

APPLICATIONS are invited for the POST of ASSISTANT WORKS SUPERINTENDENT in the Department of the Engineer and Surveyor at a salary in accordance with Miscellaneous Grade V of the National Scheme of Conditions of Service (£685-£760). Housing accommodation will be provided if necessary.

A copy of the Conditions of Appointment and Form of Application for the post may be obtained from the undersigned, to whom Forms of Application, duly completed, accompanied by names of two referees, must be delivered not later than First Post on WEDNESDAY, 23rd November, 1960.

Canvassing, either directly or indirectly, will be a disqualification.

FRED. M. DAWSON,
Clerk of the Council.

Council Offices,
Haverton Hill,
Billingham.

THE RURAL DISTRICT COUNCIL OF GODSTONE.

FELBRIDGE (GODSTONE) AND NORTH END (EAST GRINSTEAD) SEWERAGE AND SEWAGE DISPOSAL SCHEME.

APPLICATIONS are invited from suitably qualified persons for EARLY APPOINTMENT by the above Authority as RESIDENT ENGINEER to work under the direction of the Council's Consulting Engineers on the construction of sewers and sewage disposal works required under the above scheme which affects the Rural District of Godstone and the Urban District of East Grinstead.

The appointment would be for approximately 18 months and the salary offered is at the rate of £1,300 p.a. The candidate appointed will be required to provide his own car for use in the course of his duties, for which he will be paid a travelling allowance on the casual user scale for a car not exceeding 1,199 c.c. The appointment is subject to one month's notice on either side.

Applications, giving full particulars of the candidate's age, qualifications, present appointment, experience on work of a similar nature, and naming two referees, should reach the undersigned not later than 25th NOVEMBER, 1960.

M. HAWORTH,
Clerk of the Council.

Council Offices,
Oxted,
Surrey.
7th November, 1960.

APPOINTMENTS VACANT

SOUTHERN RHODESIA GOVERNMENT.

VACANCIES—MATERIALS OFFICERS AND SURVEYORS DIVISION OF ROADS AND ROAD TRAFFIC.

THE FOLLOWING VACANCIES exist for MATERIALS OFFICERS and SURVEYORS in the Division of Roads and Road Traffic of the Southern Rhodesia Government:

Materials Officers.—These Officers will normally be in charge of field control laboratories on road constructions, and when in the field will receive a field allowance of 12s. 6d. per day. Duties normally comprise the surveying, testing and control of constructional materials, but also embrace associated matters such as traffic surveying and the recording of technical data.

Surveyors.—These Officers will be stationed on forward survey units in the field, and will also receive a field allowance of 12s. 6d. per day. Duties will comprise the surveying for future road construction or realignment.

Salary Scale.—£410 x £31 to £441 x £42 to £609 x £63 to £672 x £105 to £882 x £63 to £945 x £52 10s. to £1,207 10s., and after two years to £1,280 x £52 10s. to £1,437 10s. per annum.

The commencing salary will be based upon educational qualifications and approved previous experience but will not exceed £1,050 per annum. Previous experience in a technical capacity in engineering, building or survey, or in a laboratory or drawing office, may be acceptable in assessment of salary.

Passages are paid for recruits and their families, and conditions include security, good pensions, generous sick, vacation and occasional leave, medical aid, grants towards holiday travel, admirable climate, low income tax, and facilities for all sports and recreation.

Application Forms and further details from SECRETARY (R), Rhodesia House, 429 Strand, London, W.C.2. Closing date: 5th DECEMBER, 1960.

CITY OF PETERBOROUGH.

ASSISTANT ESTATES SUPERINTENDENT AND BONUS ESTIMATOR.

A.P.T. III (£960, rising by five increments to £1,140). Car allowance £108 per year.

Housing available.

Details from, and applications to, City Engineer before 26th NOVEMBER.

C. PETER CLARKE,
Town Clerk.

Town Hall,
Peterborough.
November, 1960.

NORTHAMPTON RURAL DISTRICT COUNCIL.

APPOINTMENT OF CLERK OF WORKS.

APPLICATIONS are invited from experienced persons for the ABOVE APPOINTMENT, which is for the supervision of the reconstruction of sewage disposal works.

The appointment is temporary but, subject to satisfactory service, is expected to last for nine months, terminable by one month's written notice on either side.

Salary at the rate of £1,000 p.a. plus casual user travelling allowance for an 8-h.p. car.

Applicants must have had wide experience in similar types of work and contracts.

Applications to be delivered to the undersigned, endorsed "Clerk of Works," by not later than SATURDAY, the 26th November, 1960, stating age, qualifications, details of previous experience, when able to take up duty, if appointed, accompanied by two recent testimonials and the names and addresses of two referees.

CLIFFORD E. JONES,
Clerk of the Council.

Council Offices,
1 Cheyne Walk,
Northampton.
3rd November, 1960.

ABERYSTWYTH RURAL DISTRICT COUNCIL.

WORKS OF WATER SUPPLY—HEN GAER RESERVOIR.

APPOINTMENT OF INSPECTOR.

The Council invite APPLICATIONS for the TEMPORARY APPOINTMENT of INSPECTOR on the ABOVE WORKS, comprising the construction of a reinforced concrete service reservoir of 650,000 gallons capacity, together with spun-iron pipework feed and supply mains, and ancillary works, and situated near Bow Street, about five miles from Aberystwyth.

It is anticipated that the works will commence early in the New Year and will be completed early in the autumn of 1961. Further schemes are at present in hand which might, under certain circumstances, lead to an extended appointment.

The successful applicant would be required to work under the supervision of the Council's Consulting Engineers, A. H. S. WATERS AND PARTNERS, of Birmingham, and would be directly responsible to the Resident Engineer.

The salary offered will be up to £1,050 p.a., according to previous relevant experience.

Applications, endorsed "Inspector," stating age, experience and qualifications, and giving the names of two persons to whom reference may be made concerning the applicant's ability and character, must reach the undersigned not later than 3rd DECEMBER, 1960.

CYRUS EVANS,
Clerk of the Council.

Council Offices,
18 Chalybeate Street,
Aberystwyth,
Cards.

STEVENAGE DEVELOPMENT CORPORATION.

A VACANCY is available in the Chief Engineer's Department for a keen ENGINEERING ASSISTANT with suitable qualifications seeking interesting and varied experience.

The work includes design, construction and supervision of major and estate roads, extensive cycleway and underpass systems, lighting, pedestrian shopping centres, car parks, services, sewerage and drainage.

Salary Scale A.P.T. II/III (£815-£1,140 p.a.).

This appointment is likely to last for five years or more, and provide a sound background for further professional advancement.

Housing accommodation in due course in appropriate case. Local Government Superannuation.

Applications, stating qualifications and experience, together with the names and addresses of two referees, to CHIEF ADMINISTRATIVE OFFICER, Aston House, near Stevenage, Herts., by 28th NOVEMBER, 1960.

APPOINTMENTS VACANT

ADEN.

DEPARTMENT OF AGRICULTURE.

SENIOR IRRIGATION ENGINEER.

Qualifications: Candidates, aged 35-45, must be A.M.I.C.E. with at least 10 years' experience in investigation and assessment of water resources for agricultural purposes.

Duties: Full range of an Irrigation Engineer's duties in an arid country where water is the limiting factor in the expansion of agriculture. Advice on certain matters pertaining to construction of buildings, etc., may be required.

Terms of Appointment: On contract for three tours of 18-24 months, with gratuity of 25 per cent.

Salary: According to age and experience, in Scale £1,709-£2,004 p.a., but the Scale is under review.

Free passages; generous leave. Education and children's allowances.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name, age, and brief details of qualifications and experience. Quote BCD63/2/011/CA.

ADEN.

DEPARTMENT OF AGRICULTURE.

IRRIGATION ENGINEER.

Qualifications: Candidates, aged 35-45, must either have a University degree, or equivalent, recognised by the Institution of Civil Engineers, together with two years' subsequent practical experience; or have passed, or be otherwise exempt from, Parts I and II of the Final Examinations of the Institution of Civil Engineers and have had not less than five years' practical experience. Experience in investigation of water potential in arid countries and construction of waterworks and canals essential.

Duties: To investigate and develop water resources, plan and supervise irrigation works.

Terms of Appointment: On contract for one or two tours of 18-24 months with gratuity of 12½ per cent., or for three tours with gratuity of 25 per cent.

Salary: According to age and experience in Scale £1,232-£2,004 p.a., but this scale is under review. Free passages; generous leave. Education and children's allowances.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name, age, and brief details of qualifications and experience. Quote BCD63/2/02/D14.

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS, which are in connection with the supervision of motorway contract works:

Resident Engineers (Bridges)—Salary £1,525 p.a.
Resident Engineer (Roads)—Salary £1,525 p.a.
Assistant Resident Engineers (Bridges)—Salary £1,200-£1,300 p.a.
Assistant Resident Engineers (Roads)—Salary £1,200-£1,300 p.a.
Applicants must be qualified Engineers and have had the appropriate experience on the supervision of major constructional works.
Quantity Surveyor—Salary £1,525 p.a.
Applicants must be qualified and fully conversant with the standard method of measurement on civil engineering contracts, and have detailed knowledge with regard to payments made on interim and final measurements.
Site Laboratory Staff—Assistants—Salary £1,200 p.a.
Applicants must have the necessary technical and practical experience to deal with laboratory aspects of control; particularly the testing of soils and road materials.
Clerk of Works—Salary £1,000-£1,100.
Applicants must have had previous experience on large constructional works; preferably of a structural character or on major road schemes.

The County Council have approved a scale of overtime payments for week-end working in addition to the standard salaries.

The appointments are superannuable and the County Council will, for a period of six months, grant a lodging allowance of 35s. per week and second-class return railway fare home every two months during that period to the successful candidate, if married and maintains a home outside the geographical county. The Council will also consider granting financial assistance towards any expenses reasonably incurred in connection with the removal of a successful applicant's furniture and household goods.

Canvassing of members of the Council or any Committee of the Council, directly or indirectly, will be a disqualification.

Applications, on the appropriate forms, which can be obtained from the County Surveyor, County Buildings, Stafford, should reach him not later than 14 days after the date of publication of this advertisement.

T. H. EVANS,
Clerk of the County Council.

County Buildings,
Stafford.

NORFOLK COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT of a DIVISIONAL SURVEYOR—J.N.C. "A" (£1,360-£1,565 p.a.), who will be responsible for the maintenance and improvement of approx. 536 miles of road in the Rural Districts of Blofield and Flegg, and Smallburgh.

Applicants should be Associate Members of the Institution of Civil Engineers, or the Institution of Municipal Engineers, or hold an equivalent qualification, and must have a wide experience of maintenance of highways and bridges in a rural area.

The appointment will be on the permanent establishment of the Department, terminable by three months' notice on either side. The provisions of the Local Government Superannuation Acts, 1937 to 1953, apply. The successful candidate will be required to pass a medical examination and to reside within reasonable distance of the Divisional Office, which is sited at Stalham. The Division includes the entire Norfolk Broads district.

The National Joint Council Service Conditions apply in general.

A motor car is essential, and the appointed officer will be paid an essential user's car allowance in accordance with the recommendations of the National Joint Council, as adopted and applied from time to time by the County Council. A loan will be available for car purchase if required.

Further particulars and Application Forms obtainable from the COUNTY SURVEYOR, County Offices, Norfolk County Council, Thorpe Road, Norwich, NOR 47A.

Latest date for completed Application Forms—16th DECEMBER, 1960.

APPOINTMENTS VACANT

ADMIRALTY.

QUANTITY SURVEYING ASSISTANTS.

NAVY WORKS DEPARTMENT REQUIRES QUANTITY SURVEYING ASSISTANTS at Offices at Pinner (Middx.), Chatham, Portsmouth, Portland, Liverpool, Greenock and Rosyth.

Duties include abstracting and billing, preparation of estimates, site measurements, settlement of final accounts, etc. Possession of qualifications such as City and Guilds, O.N.C. (Building or Builders' Quantities) an advantage. Assistance given for recognised courses of study to enable technical qualifications to be obtained.

Promotion and pension prospects. 5-day week; 18 days' annual leave, rising to 22 days after 10 years.

Salaries (National Rates subject to slight variation depending on location): Grade II—£950 p.a. on entry to £1,085; Grade III—£670 p.a. at age 21 to £850 p.a. at age 28 or over, maximum £950; Grade IV—£520 p.a. at age 20 to £710 at age 28 or over, maximum £850.

Candidates must be British subjects and should apply in writing, giving details of qualifications and experience, to DIRECTOR-GENERAL, Navy Works, Admiralty, Chamberlain Way, Pinner, Middlesex.

ROYAL COUNTY OF BERKSHIRE.

APPLICATIONS are invited for the FOLLOWING APPOINTMENT on the staff of the County Surveyor:
Traffic Engineer—A.P.T. Grade IV (£1,140-£1,310).

Applicants should be suitably qualified and have had experience in highway design and construction as well as traffic engineering. The commencing salary will be within the grade in accordance with qualifications, training and experience.

The post is located at Head Office, Reading, and will carry the option of an essential user car allowance or accepting a Council-owned car on approved conditions.

Forms of Application obtainable from, and returnable to, the COUNTY SURVEYOR, Shire Hall, Reading, not later than MONDAY, 5th December, 1960.

COUNTY BOROUGH OF ROCHDALE.

WATERWORKS DEPARTMENT.

ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE-MENTIONED APPOINTMENT on Grade A.P.T. III.

Candidates should have experience in waterworks construction and/or day-to-day maintenance of a waterworks undertaking.

Canvassing will disqualify. Relationship to any member or senior official of the Council must be disclosed. Appointment subject to medical examination.

Applications and names of three referees to Water Engineer, Townhead, Rochdale, by 1st December, 1960.

K. B. MOORE,
Town Clerk.

Town Hall,
Rochdale.

CITY AND COUNTY OF BRISTOL.

CITY ENGINEER AND PLANNING OFFICER'S DEPARTMENT.

APPOINTMENT OF SURVEYING ASSISTANT.

A VACANCY exists in the City Engineer and Planning Officer's Department for a SURVEYING ASSISTANT. Salary Grade A.P.T. I (£645-£815 p.a.).

Candidates should have had experience in carrying out large surveys. Experience of Ordnance Survey work an advantage.

Post pensionable: medical examination. 5-day week. Contribution towards removal expenses.

Applications, stating age, nationality, educational training, professional qualifications, present and previous posts with salaries and dates, notice required to terminate present appointment, whether related to a member of senior officer of the Council, and names of two referees, to reach CITY ENGINEER AND PLANNING OFFICER, Cabot House, Deanery Road, Bristol, 1, by 30th NOVEMBER.

Canvassing disqualifies.

FULWOOD URBAN DISTRICT COUNCIL.

ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE APPOINTMENT from suitably qualified persons.

The salary scale will be A.P.T. Grade II (commencing at £815 and rising to £960).

The appointment is subject to a medical examination for superannuation and is terminable by one month's notice on either side.

Housing accommodation may be available if required.

Applications, together with the names and addresses of two persons to whom reference can be made, must reach the undersigned not later than WEDNESDAY, 7th December, 1960.

R. D. S. COTMAN,
Clerk of the Council.

Council Offices,
Garstang Road,
Fulwood,
Near Preston,
Lancs.

CLAY CROSS URBAN DISTRICT COUNCIL.

WORKS SUPERINTENDENT.

APPLICATIONS are invited from persons with good general experience, particularly in the construction of roads and sewers, for the APPOINTMENT of WORKS SUPERINTENDENT at a salary within Misc. Grade VI. Hours of employment to be the same as the men under his control.

The person appointed will be responsible to the Surveyor for direct labour works, including the construction and maintenance of roads and sewers, street cleansing, street lighting, maintenance of Council houses and public buildings.

The post is subject to the Local Government Superannuation Acts, the passing of a medical examination, and to one month's notice on either side.

The Council will assist with the provision of housing accommodation if necessary.

Applications, endorsed "Works Superintendent," stating age, present and previous appointments, experience, and giving the names of two persons to whom reference may be made, should reach the undersigned not later than FRIDAY, 9th December, 1960.

RICHARD SHAKESBY,
Clerk of the Council.

Council Offices,
93/5 High Street,
Clay Cross,
Near Chesterfield.

APPOINTMENTS VACANT

BOROUGH OF LEOMINSTER.

SEWERAGE AND SEWAGE DISPOSAL SCHEME.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited from suitably qualified persons for the POST of RESIDENT ENGINEER to supervise the construction of a sewage disposal works comprising screening chamber settlement tanks, percolating filters, humus tanks, storm water settlement tanks, storm water and sewage pumping sations, sludge drying beds, etc., in reinforced concrete, the laying of 6in. to 39in. cast-iron and concrete tube sewers, and other ancillary works. The work will be carried out under the direction of the Council's Consulting Engineers.

The appointment is expected to commence in January next, and the duration will be approx. 18 months.

The salary will be at the rate of £1,500 per annum inclusive of all allowances for lodging, travelling and subsistence.

Applications, giving details of qualifications, experience and age, together with the names and addresses of three referees, should be forwarded immediately to the undersigned.

K. DOWNS,
Town Clerk.

Municipal Offices,
Grange Court,
Leominster,
Herefordshire.
18th November, 1960.

BOROUGH OF ENFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited from suitably qualified persons for the POST of ENGINEERING ASSISTANT, A.P.T. IV (£1,140-£1,310) plus London Weighting.

The commencing salary to be fixed at a point within the Scale commensurate with qualifications and experience.

The successful applicant will be engaged on a relighting scheme for the Borough, estimated to cost £1½m.

Housing accommodation may be made available in appropriate cases. The Council is also prepared to consider 100 per cent. advances to successful applicants for house purchase within the Borough.

Saturday mornings are normally free from duty.

Application Forms, obtainable from H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middlesex, must be delivered to the undersigned as soon as possible.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Gentleman's Row,
Enfield, Middx.

CITY AND COUNTY OF NORWICH.

ENGINEERS.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the City Engineer's Department:
(a) Principal Assistant Engineers on Scale "A."
(b) Senior Assistant Engineer—A.P.T. V.
(c) Assistant Engineer—A.P.T. IV.

Candidates for all these appointments must be Chartered Civil Engineers or Chartered Municipal Engineers.

In the case of (a) the successful candidates will be required to take control of a section of the Drawing Office, comprising four or five assistants. For these appointments, experience is required in one of the following branches of Municipal Engineering—traffic and highways, structural, main drainage, and general municipal.

Applicants for post (b) will be next in seniority to the Principal Assistant.

Housing accommodation will be made available in approved circumstances for all posts as quickly as possible, and car allowances may be available for the senior appointments.

Applications, stating age, qualifications, present and previous positions giving gradings, together with the names of two referees, to the CITY ENGINEER, City Hall, Norwich, NOR 01A, by 26th NOVEMBER, 1960.

WEST HERTFORDSHIRE MAIN DRAINAGE AUTHORITY.

(a) RESIDENT ENGINEER.
(b) JUNIOR ASSISTANT RESIDENT ENGINEER.
(c) CLERK.

APPLICATIONS are invited for the ABOVE APPOINTMENTS on the staff of MESSRS. JOHN TAYLOR AND SONS, Consulting Engineers, to supervise works being carried out on behalf of the West Hertfordshire Main Drainage Authority.

The projected works and those at present under construction consist of major extensions to the Board's sewage treatment works and trunk sewers, and include the construction of eight sludge digestion tanks and some 14 acres of sludge drying beds. Candidates for appointments (a) and (b) should preferably have had experience of this class of work, and must be capable of levelling, setting out, measuring and supervising work in progress, keeping records and checking accounts.

In all cases the appointments are of a temporary nature, but the programme of works prepared by the Board will extend for several years and, subject to satisfactory service, it is probable that the successful applicants would be given an opportunity to supervise these future Contracts.

Details regarding salaries and qualifications are given below:—

(a) Resident Engineer.

The appointment is at an inclusive salary of £1,750 per annum, rising by annual increments of £50 to £1,950 per annum.

Candidates must have an engineering degree and/or shall be corporate members of the Institution of Civil Engineers, and should have had considerable experience in the supervision of large civil engineering Contracts.

(b) Junior Assistant Resident Engineer.

The appointment is at an inclusive salary of £900 per annum.

Candidates should have had previous experience of the supervision of reinforced concrete work and/or sewer construction, and should be competent surveyors. Preference will be given to candidates holding the qualifications referred to for appointment (a).

(c) Clerk.

The appointment is at an inclusive salary of £650 per annum.

Candidates must be able to type, and should preferably have had previous experience of clerical duties in connection with civil engineering or building work, including checking of contractors' accounts.

Applications, stating age, qualifications and experience, together with copies of two recent testimonials or the names of two responsible referees, must be delivered to MESSRS. JOHN TAYLOR AND SONS, Chartered Civil Engineers, Artillery House, Artillery Row, London, S.W.1, not later than the 30th day of NOVEMBER, 1960.

APPOINTMENTS VACANT

SALESMAN REQUIRED, South Yorkshire area. Must be experienced in selling Ford-based industrial and earthmoving equipment. Situation pensionable; car provided.—Write full details to Box V.2946, "The Contract Journal."

PRECAST CONCRETE MANUFACTURERS

REQUIRE WORKS MANAGER. Must be capable organiser, used to handling labour and have sound knowledge of concrete.—Applications, in writing, to be marked "Works Manager," to:

CONCRETE PRODUCTS, LTD.,
Rosedale Works, Hunmanby, near Filey.

EXPERIENCED ESTIMATOR REQUIRED by civil engineering contractors. Head office appointment, near Reading, Berkshire. Permanent and progressive post, with group life and pension scheme in operation.—Write in confidence, stating age, full details of experience, with names of past employers, and salary required, to Box V.2955, "The Contract Journal."

SENIOR BUILDING PLANNER REQUIRED to take full charge of all group building planning. The applicant must have extensive building experience in both domestic and industrial building and must have had planning experience either at site or at head office level. Permanent position with good prospects, bonus and superannuation schemes in operation. Applications, which will be treated in confidence, should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

AGENT shortly REQUIRED. Sewers and sewage works in Berks., Bucks. and Oxon. Ability essential in site organisation, use of instruments and measurement.—Write details age, experience, and salary required, to Box V.2911, "The Contract Journal."

DRAUGHTSMAN.—Leading specialist building sub-contractors REQUIRE experienced Draughtsman for project department. Good knowledge building construction essential. Capable of working on own initiative; permanent and progressive. Superannuated position. Good salary for right man.—Write or 'phone: THE ROM RIVER CO., LTD., 100 Stewarts Road, S.W.8. MAC 6622.

MANAGER REQUIRED

For fleet of 15 "B" licensed vehicles mainly operating in building and C.E. work, clinker and hardcore distribution, Greater London area. Experienced men only should apply, giving details of past and present employment All applications treated confidentially.

WRITE BOX A.N.501, "THE CONTRACT JOURNAL."

CIVIL ENGINEER REQUIRED, with previous site experience, to train for a head office appointment as an ESTIMATOR. The position is permanent and carries a substantial salary and bonus. Entry into the company's superannuation scheme will be arranged at the end of 12 months' service.—Applicants should write, stating age, qualifications, experience to date, etc., to the Chief Estimator, THE MITCHELL CONSTRUCTION CO., LTD., Wharf Works, Peterborough, where applications will be treated in the strictest confidence.

SENIOR GENERAL FOREMEN. — We have several vacancies on our permanent contract staff on interesting contracts in the Midlands area for First-class Foremen able to take control of contracts in all aspects up to £1½m. in value. Vacancies on building projects require a tradesman background, and vacancies on civil engineering and reinforced concrete contracts require carpenter-training background. Applications will only be considered from men with proved similar experience over recent years.—Apply, with full particulars, for terms and conditions to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

PLANNING AND PROGRESS TECHNICAL ASSISTANT.—Applications invited from young men with H.N.C. in building, or carpenter and joiner-trained, and experience with bills of quantities and drawings, and some preplanning experience initial to the start of contracts, to assist Chief Planning Surveyor. The position is progressive and permanent at head office, and will carry a good starting salary. Applications to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton

BUILDING ESTIMATOR.—An opportunity exists for a man experienced in estimating for all types of building works, and preferably having A.I.B.E. or L.I.O.B. or H.N.C. qualifications. Should you be a suitable applicant we can offer a good salary and favourable conditions. — Please get in touch with WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

REQUIRED

For four-year contract in East Midlands:
(1) **OUTSIDE SUB-AGENT**
Qualified, with minimum of six years' all-round experience on contract sites, including construction of heavy concrete structures and sheet piled cofferdams.
(II) **DESIGN AND PLANNING ENGINEER**
Qualified, with experience of designing temporary and permanent works. Site experience with contractor or consultant essential.
Both these positions carry good salary and subsistence allowance, with entry into the company's superannuation scheme and prospects of advancement in an expanding organisation.

WRITE BOX C1915, LPE,
Romano House, 399/401 Strand, London, W.C.2.

LIVE REPRESENTATIVES or **AGENTS WANTED** to introduce a completely revolutionary but tried and proved concrete case-hardening and permanently dust-proofing process for concrete floors. Full backing and follow up by our highly trained technical staff. Contracts can run into many thousands of pounds, and a high rate of commission will be paid.—Write in full confidence to CONCRETE IMPROVERS, LTD., 270 Pershore Road, Edgbaston, Birmingham, 5.

YOUNG ambitious ESTIMATOR REQUIRED for expanding firm of civil engineering and agricultural contractors.—E. DOE AND SONS (CONTRACTS), LTD., Fyfield, Ongar, Essex. Tel.: Fyfield 238.

FIRST-CLASS AGENT REQUIRED to take full charge of water main contract in the Worcester/Tenbury area, approx. two-year duration.—Apply in writing, stating age, experience, salary required, to GROCOCK AND DAY, LTD., 26 Mayfield Road, Leicester.

ESTIMATOR REQUIRED for civil engineering.—SENIOR ESTIMATOR REQUIRED for large civil engineering works. Permanent position, pension scheme, good salary and prospects.—Apply in writing, giving full details of experience, etc., M. J. GLEESON (CONTRACTORS), LTD., BP/WSB, C.E. Department, Haredon House, London Road, North Cheam, Surrey.

FITZPATRICK AND SON (CONTRACTORS), LTD., REQUIRE AGENTS experienced in motorway, sewer and road reconstruction. May be required to travel.—Apply in writing, giving details of previous experience, etc., last three employers and duration of employment with each, to 455, Old Ford Road, Bow, E.3.

WHITLEY MORAN AND CO., LTD., REQUIRE JUNIOR ENGINEERS, preferably with technical training and/or some site experience, for site supervision on current contracts and for head office duties. Vacancy also exists for GRADUATE ENGINEER.—Send full particulars of age, experience and salary required to WHITLEY MORAN AND CO., LTD., 5 Cio Hall Street, Liverpool, 3.

SITE ENGINEERS REQUIRED for C.E. contracts in East Anglia. Good prospects, with permanent position and superannuation scheme, for suitable applicants.—Write, stating age, experience, and salary required, to Box V.3026, "The Contract Journal."

SITE QUANTITY SURVEYORS

REQUIRED by well-established building and civil engineering contractor in the north-west. Age approx. 30 to 45, and should have some qualifications. Must have had several years' experience on contract sites and be capable of supervising the work of site measuring staff. Must be fully mobile within the U.K., and possession of own car would be an advantage. This is a permanent staff appointment, with pension rights and good remuneration.—Write, in confidence, quoting Reference QS126, giving full details of age, qualifications and experience, to:

BOX V.2896, "THE CONTRACT JOURNAL."

OVERSEAS. — Experienced men in the following categories REQUIRED for large civil engineering contract overseas: FOREMAN CARPENTER—with first-rate shuttering experience and able to look after concreting, steelfixing and heavy timber construction; PILING FOREMAN—experienced in sheet piling, concrete piling, cofferdams, general excavation and concrete work and heavy timber construction; EXCAVATION FOREMEN—experienced in large-scale muck-shifting and in handling a number of draglines, bulldozers, etc. Other general experience an asset; CONSTRUCTION FOREMEN—experienced in general excavation and concrete work and in heavy timber construction. All European staff on this job are hard, tough workers. The job is large and scattered and goes at a fast pace. Candidates must fit in with all this. Good climate. Two-years' tour. Bachelor quarters only available.—Write Box V.3043, "The Contract Journal."

CONTRACTORS' AGENTS REQUIRED for medium and large civil engineering contracts in the Midlands and North-Eastern England. Applicants should have extensive experience of civil engineering construction work, including reinforced concrete structures. Good prospects with salary commensurate with experience. Bonus and superannuation schemes in operation.—Applications, which will be treated in confidence, should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

CIVIL ENGINEER

REQUIRED for civil engineering contracts, including heavy foundations, reinforced concrete bridge works and sewage disposal works. Successful applicant would be required to work under the control of a civil engineering agent, and previous experience in this type of work is essential. Excellent prospects are offered in a well-established and expanding organisation. We have a progressive staff policy operating superannuation, profit-sharing schemes and assistance in car purchase.—For further details and application form, apply, in confidence, giving brief particulars, to:

J. Wright, Construction Director,
C. BRYANT AND SON, LTD.,
65 Whitmore Road, Birmingham, 10.

COMPETENT ENGINEER REQUIRED by small established company, for setting-out contract on Merseyside. To commence immediately. Salary commensurate with ability.—Write full particulars to Box V.3023, "The Contract Journal."

CARPENTERS REQUIRED immediately for bridge contract in Worcester. Production bonus and subsistence. — Apply on site or write to General Foreman, LOMOUNT CONSTRUCTION, LTD., adj. The Rectory, Primsland, near Hadzor, Droitwich. Telephone: Droitwich 2004.

CIVIL ENGINEER REQUIRED for large overseas contract. All European staff on this job are hard, tough workers. The job is large and scattered, and goes at a fast pace. Candidates, aged 25 to 35, must fit in with all this. Good climate: two-year tour. Single quarters only available.—Write Box V.3046, "The Contract Journal."

AGENT REQUIRED for heavy civil engineering contract in South Wales. Must be experienced in all classes of C.E. works. Age 30-40 years. This appointment offers permanency and ample scope for advancement, and the successful applicant would be expected to settle in South Wales. Entry into the company's pension and profit-sharing schemes will be arranged after period of proven ability.—Applications required in writing only, giving full details of age, experience, previous employers, etc., which will be treated in confidence, to Area Manager, G. PERCY TRENTHAM, LTD., Roath Basin, Docks, Cardiff.

ENGINEER/AGENT REQUIRED for dock reconstruction work, Hull and Goole. Long-term employment with excellent prospects. A qualification an advantage. — Write Box V.3041, "The Contract Journal."

COST CLERK REQUIRED. London office expanding building company. Responsible to director for cost and analysis.—Apply own handwriting, stating age, experience, salary, to Box V.3040, "The Contract Journal."

QUANTITY SURVEYORS and ASSISTANT QUANTITY SURVEYORS REQUIRED for important contracts in Bristol and district. Successful applicants will be appointed, after satisfactory initial service, to permanent positions offering good experience and opportunities for advancement.—Reply in confidence, stating age, training, experience, and salary required, to W. E. CHALKE AND CO., LTD., Langford Road, Weston-super-Mare, Somerset.

CLERK OF WORKS REQUIRED for sewerage and sewage disposal scheme in Khartoum. Salary £1,300 per annum plus gratuity.—Applications to HOWARD HUMPHREYS AND SONS, West Street, Epsom, Surrey. Please quote Ref. 406.

THIS SITUATION could be a career for the right type of man. Massey-Ferguson Industrial Distributors need a REPRESENTATIVE to handle sales of industrial tractors and diggers, etc. Previous experience with industrial equipment, or the building or allied trades, absolutely imperative. — Write Box V.3025, "The Contract Journal."

SIR LINDSAY PARKINSON AND CO., LTD.

REQUIRE SENIOR and ASSISTANT MEASURING SURVEYORS for large and interesting contracts in the West and Northern Counties.—Write, giving full details of previous experience, age and salary required, to:

Chief Surveyor,
SIR LINDSAY PARKINSON AND CO., LTD.,
6 Lambeth Road, London, S.E.1.

ASSISTANT CIVIL ENGINEERS. — RICHARD COSTAIN, LTD., have two vacancies for Assistant Civil Engineers to work on sites in the U.K. Applications are invited from men with at least three years' site experience since graduation. These are progressive positions offering a wide variety of experience on heavy civil engineering works.—Please apply to Personnel Officer, 111 Westminster Bridge Road, London, S.E.1.

SENIOR INDUSTRIAL REPRESENTATIVE REQUIRED by leading tractor, agricultural and industrial machinery distributors. Applicants for this permanent position must be energetic, ambitious, and fully experienced in the selling of industrial and allied equipment. Preference will be given to applicant with sales experience on the J.C.B., Shawnee, Fordson and County range of equipment. The successful applicant will be provided with a suitable car and operate from our new agricultural and industrial division where large stocks of all types of equipment are held. Full service and advertising support given. Substantial commission in addition to basic salary and expenses, plus usual paid holidays, non-contributory pension scheme, etc. Assistance with removal expenses and accommodation if required.—Apply in own handwriting, with full details, in confidence to the Personnel Manager, PETERBOROUGH MOTORS, LTD., 27/39 New Road, Peterborough.

CONTRACTS AGENT

Qualified CIVIL ENGINEER with previous experience as Agent REQUIRED by civil engineering contractors for work in North Yorks. and South Durham area. Age group 30-40. Must be able to eventually assume complete control, develop and expand progressive engineering department. Starting salary range £1,350. Superannuation scheme. Car provided.—Please send brief personal particulars and full details of previous experience, which will be regarded as strictly confidential, to:

BOX V.2986, "THE CONTRACT JOURNAL."

REQUIRED immediately, First-class Man with complete knowledge of earthmoving machines and roadpaving machines. The position is one of utmost importance, and a good salary will be paid to the right man. Only persons of absolute integrity and experience are requested to apply in confidence. Write Box V.3029, "The Contract Journal."

GENERAL FOREMAN REQUIRED by civil engineering contractors operating in Southern and S.E. Counties. Must be capable of complete control of labour, setting-out and general organisation. Permanent position. Salary £750-£950 p.a.—Write full details to Box V.3077, "The Contract Journal."

J. I. CASE CO., LTD., REQUIRE very experienced ADMINISTRATOR to supervise sales and parts procedures. This is an exacting and responsible position calling for a man with a flair for administration and organisation, who should be prepared to travel between depots and distributors.—Reply in confidence to the Home Sales Director, J. I. Case Co., Ltd., Mill Road, West Drayton, Middlesex.

WANTED, WORKS MAINTENANCE ENGINEER, experienced all services, also erection of steel buildings. Progressive, permanent and pensionable post. House available. — FRED. WATKINS (ENGINEERING), LTD., Coleford, Glos.

CIVIL ENGINEER REQUIRED by private contracting company as Personal Assistant to the Managing Director, to train for executive position. Applicants must be technically well trained and have had site experience on sewers, roadworks, concrete structures, piling, and general civil engineering work; also some administrative experience, including measuring and preparing certificates. Preferably under 30. Salary to be agreed. Midlands area. This appointment is part of a plan for succession and has considerable prospects.—Write Box V.3065, "The Contract Journal."

JOHN LAING AND SON, LTD.

REQUIRE ENGINEERS for general site engineering services. Professional qualifications expected for those seeking senior posts, but applications also welcomed from men with good instrument experience. Full mobility is required. The company offers a pension scheme and other progressive benefits.—Apply, giving brief details of past experience, to:

The Personnel Manager (E.2),
JOHN LAING AND SON, LTD.,
Building and Civil Engineering Contractors,
London, N.W.7.

SITE QUANTITY SURVEYORS REQUIRED by well-established building and civil engineering contractors. Must have considerable experience of civil engineering and building sites, and be capable of carrying out all quantity surveying duties with regard to such contracts. Will also be required to supervise the work of site cost surveyors. Must be fully mobile within the U.K. Car owners will be paid mileage allowance. Permanent staff appointment. Salary by arrangement. Pension scheme.—Quote Ref. 1/53 when writing to Box V.3092, "The Contract Journal."

RESIDENT SITE ARCHITECT or **ENGINEER** REQUIRED for interesting project in South Wales commencing early in New Year and due to last 18 months. Salary in range £1,400-£1,500 per annum, depending upon experience. Possibilities of further employment to suitable candidate.—Write for interview to A. M. GEAR AND ASSOCIATES, 12 Manchester Square, London, W.1, stating Ref. 323/17.

APPOINTMENTS VACANT

ADEN.

DEPARTMENT OF AGRICULTURE.

SENIOR IRRIGATION ENGINEER.

Qualifications: Candidates, aged 35-45, must be A.M.I.C.E. with at least 10 years' experience in investigation and assessment of water resources for agricultural purposes.

Duties: Full range of an Irrigation Engineer's duties in an arid country where water is the limiting factor in the expansion of agriculture. Advice on certain matters pertaining to construction of buildings, etc., may be required.

Terms of Appointment: On contract for three tours of 18-24 months, with gratuity of 25 per cent.

Salary: According to age and experience, in Scale £1,709-£2,004 p.a., but the Scale is under review.

Free passages; generous leave. Education and children's allowances.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name, age, and brief details of qualifications and experience. Quote BCD63/2/011/CA.

ADEN.

DEPARTMENT OF AGRICULTURE.

IRRIGATION ENGINEER.

Qualifications: Candidates, aged 35-45, must either have a University degree, or equivalent, recognised by the Institution of Civil Engineers, together with two years' subsequent practical experience; or have passed, or be otherwise exempt from, Parts I and II of the Final Examinations of the Institution of Civil Engineers and have had not less than five years' practical experience. Experience in investigation of water potential in arid countries and construction of waterworks and canals essential.

Duties: To investigate and develop water resources, plan and supervise irrigation works.

Terms of Appointment: On contract for one or two tours of 18-24 months with gratuity of 12½ per cent., or for three tours with gratuity of 25 per cent.

Salary: According to age and experience in Scale £1,232-£2,004 p.a., but this scale is under review. Free passages; generous leave. Education and children's allowances.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name, age, and brief details of qualifications and experience. Quote BCD63/2/02/D14.

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS, which are in connection with the supervision of motorway contract works:

Resident Engineers (Bridges)—Salary £1,525 p.a.

Resident Engineer (Roads)—Salary £1,525 p.a.

Assistant Resident Engineers (Bridges)—Salary £1,200-£1,300 p.a.

Assistant Resident Engineers (Roads)—Salary £1,200-£1,300 p.a.
Applicants must be qualified Engineers and have had the appropriate experience on the supervision of major constructional works.

Quantity Surveyor—Salary £1,525 p.a.
Applicants must be qualified and fully conversant with the standard method of measurement on civil engineering contracts, and have detailed knowledge with regard to payments made on interim and final measurements.

Site Laboratory Staff—Assistants—Salary £1,200 p.a.
Applicants must have the necessary technical and practical experience to deal with laboratory aspects of control; particularly the testing of soils and road materials.

Clerk of Works—Salary £1,000-£1,100.
Applicants must have had previous experience on large constructional works; preferably of a structural character or on major road schemes.

The County Council have approved a scale of overtime payments for week-end working in addition to the standard salaries.

The appointments are superannuable and the County Council will, for a period of six months, grant a lodging allowance of 35s. per week and second-class return railway fare home every two months during that period to the successful candidate, if married and maintaining a home outside the geographical county. The Council will also consider granting financial assistance towards any expenses reasonably incurred in connection with the removal of a successful applicant's furniture and household goods.

Canvassing of members of the Council or any Committee of the Council, directly or indirectly, will be a disqualification.

Applications, on the appropriate forms, which can be obtained from the County Surveyor, County Buildings, Stafford, should reach him not later than 14 days after the date of publication of this advertisement.

T. H. EVANS,
Clerk of the County Council.

County Buildings,
Stafford.

NORFOLK COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT of a DIVISIONAL SURVEYOR—J.N.C. "A" (£1,360-£1,565 p.a.), who will be responsible for the maintenance and improvement of approx. 536 miles of road in the Rural Districts of Blofield and Flegg, and Smallburgh.

Applicants should be Associate Members of the Institution of Civil Engineers, or the Institution of Municipal Engineers, or hold an equivalent qualification, and must have a wide experience of maintenance of highways and bridges in a rural area.

The appointment will be on the permanent establishment of the Department, terminable by three months' notice on either side. The provisions of the Local Government Superannuation Acts, 1937 to 1953, apply. The successful candidate will be required to pass a medical examination and to reside within reasonable distance of the Divisional Office, which is sited at Stalham. The Division includes the entire Norfolk Broads district.

The National Joint Council Service Conditions apply in general.

A motor car is essential, and the appointed officer will be paid an essential user's car allowance in accordance with the recommendations of the National Joint Council, as adopted and applied from time to time by the County Council. A loan will be available for car purchase if required.

Further particulars and Application Forms obtainable from the COUNTY SURVEYOR, County Offices, Norfolk County Council, Thorpe Road, Norwich, NOR 47A.

Latest date for completed Application Forms—16th DECEMBER, 1960.

APPOINTMENTS VACANT

ADMIRALTY.

QUANTITY SURVEYING ASSISTANTS.

NAVY WORKS DEPARTMENT REQUIRES QUANTITY SURVEYING ASSISTANTS at Offices at Pinner (Middx.), Chatham, Portsmouth, Portland, Liverpool, Greenock and Rosyth.

Duties include abstracting and billing, preparation of estimates, site measurements, settlement of final accounts, etc. Possession of qualifications such as City and Guilds, O.N.C. (Building or Builders' Quantities) an advantage. Assistance given for recognised courses of study to enable technical qualifications to be obtained.

Promotion and pension prospects. 5-day week; 18 days' annual leave, rising to 22 days after 10 years.

Salaries (National Rates subject to slight variation depending on location): Grade II—£950 p.a. on entry to £1,085; Grade III—£670 p.a. at age 21 to £850 p.a. at age 28 or over, maximum £950; Grade IV—£520 p.a. at age 20 to £710 at age 28 or over, maximum £850.

Candidates must be British subjects and should apply in writing, giving details of qualifications and experience, to DIRECTOR-GENERAL, Navy Works, Admiralty, Chamberlain Way, Pinner, Middlesex.

ROYAL COUNTY OF BERKSHIRE.

APPLICATIONS are invited for the FOLLOWING APPOINTMENT on the staff of the County Surveyor:
Traffic Engineer—A.P.T. Grade IV (£1,140-£1,310).

Applicants should be suitably qualified and have had experience in highway design and construction as well as traffic engineering. The commencing salary will be within the grade in accordance with qualifications, training and experience.

The post is located at Head Office, Reading, and will carry the option of an essential user car allowance or accepting a Council-owned car on approved conditions.

Forms of Application obtainable from, and returnable to, the COUNTY SURVEYOR, Shire Hall, Reading, not later than MONDAY, 5th December, 1960.

COUNTY BOROUGH OF ROCHDALE.

WATERWORKS DEPARTMENT.

ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE-MENTIONED APPOINTMENT on Grade A.P.T. III.

Candidates should have experience in waterworks construction and/or day-to-day maintenance of a waterworks undertaking.

Canvassing will disqualify. Relationship to any member or senior official of the Council must be disclosed. Appointment subject to medical examination.

Applications and names of three referees to Water Engineer, Townhead, Rochdale, by 1st December, 1960.

K. B. MOORE,
Town Clerk.

Town Hall,
Rochdale.

CITY AND COUNTY OF BRISTOL.

CITY ENGINEER AND PLANNING OFFICER'S DEPARTMENT.

APPOINTMENT OF SURVEYING ASSISTANT.

A VACANCY exists in the City Engineer and Planning Officer's Department for a SURVEYING ASSISTANT. Salary Grade A.P.T. I (£645-£815 p.a.).

Candidates should have had experience in carrying out large surveys. Experience of Ordnance Survey work an advantage.

Post pensionable: medical examination. 5-day week. Contribution towards removal expenses.

Applications, stating age, nationality, educational training, professional qualifications, present and previous posts with salaries and dates, notice required to terminate present appointment, whether related to a member of senior officer of the Council, and names of two referees, to reach CITY ENGINEER AND PLANNING OFFICER, Cabot House, Deanery Road, Bristol, 1, by 30th NOVEMBER.

Canvassing disqualifies.

FULWOOD URBAN DISTRICT COUNCIL.

ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE APPOINTMENT from suitably qualified persons.

The salary scale will be A.P.T. Grade II (commencing at £815 and rising to £960).

The appointment is subject to a medical examination for superannuation and is terminable by one month's notice on either side.

Housing accommodation may be available if required.

Applications, together with the names and addresses of two persons to whom reference can be made, must reach the undersigned not later than WEDNESDAY, 7th December, 1960.

R. D. S. COTMAN,
Clerk of the Council.

Council Offices,
Garstang Road,
Fulwood,
Near Preston,
Lancs.

CLAY CROSS URBAN DISTRICT COUNCIL.

WORKS SUPERINTENDENT.

APPLICATIONS are invited from persons with good general experience, particularly in the construction of roads and sewers, for the APPOINTMENT of WORKS SUPERINTENDENT at a salary within Misc. Grade VII. Hours of employment to be the same as the men under his control.

The person appointed will be responsible to the Surveyor for direct labour works, including the construction and maintenance of roads and sewers, street cleansing, street lighting, maintenance of Council houses and public buildings.

The post is subject to the Local Government Superannuation Acts, the passing of a medical examination, and to one month's notice on either side.

The Council will assist with the provision of housing accommodation if necessary.

Applications, endorsed "Works Superintendent," stating age, present and previous appointments, experience, and giving the names of two persons to whom reference may be made, should reach the undersigned not later than FRIDAY, 9th Dcember, 1960.

RICHARD SHAKESBY,
Clerk of the Council.

Council Offices,
93/5 High Street,
Clay Cross,
Near Chesterfield.

APPOINTMENTS VACANT

BOROUGH OF LEOMINSTER.

SEWERAGE AND SEWAGE DISPOSAL SCHEME.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited from suitably qualified persons for the POST of RESIDENT ENGINEER to supervise the construction of a sewage disposal works comprising screening chamber settlement tanks, percolating filters, humus tanks, storm water settlement tanks, storm water and sewage pumping sations, sludge drying beds, etc., in reinforced concrete, the laying of 6in. to 39in. cast-iron and concrete tube sewers, and other ancillary works. The work will be carried out under the direction of the Council's Consulting Engineers.

The appointment is expected to commence in January next, and the duration will be approx. 18 months.

The salary will be at the rate of £1,500 per annum inclusive of all allowances for lodging, travelling and subsistence.

Applications, giving details of qualifications, experience and age, together with the names and addresses of three referees, should be forwarded immediately to the undersigned.

K. DOWNS,
Town Clerk.

Municipal Offices,
Grange Court,
Leominster,
Herefordshire.
18th November, 1960.

BOROUGH OF ENFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited from suitably qualified persons for the POST of ENGINEERING ASSISTANT, A.P.T. IV (£1,140-£1,310) plus London Weighting.

The commencing salary to be fixed at a point within the Scale commensurate with qualifications and experience.

The successful applicant will be engaged on a relighting scheme for the Borough, estimated to cost £1½m.

Housing accommodation may be made available in appropriate cases. The Council is also prepared to consider 100 per cent. advances to successful applicants for house purchase within the Borough.

Saturday mornings are normally free from duty.

Application Forms, obtainable from H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middlesex, must be delivered to the undersigned as soon as possible.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Gentleman's Row,
Enfield, Middx.

CITY AND COUNTY OF NORWICH.

ENGINEERS.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the City Engineer's Department:
(a) Principal Assistant Engineers on Scale "A."
(b) Senior Assistant Engineer—A.P.T. V.
(c) Assistant Engineer—A.P.T. IV.

Candidates for all these appointments must be Chartered Civil Engineers or Chartered Municipal Engineers.

In the case of (a) the successful candidates will be required to take control of a section of the Drawing Office, comprising four or five assistants. For these appointments, experience is required in one of the following branches of Municipal Engineering—traffic and highways, structural, main drainage, and general municipal.

Applicants for post (b) will be next in seniority to the Principal Assistant.

Housing accommodation will be made available in approved circumstances for all posts as quickly as possible, and car allowances may be available for the senior appointments.

Applications, stating age, qualifications, present and previous positions giving gradings, together with the names of two referees, to the CITY ENGINEER, City Hall, Norwich, NOR 01A, by 26th NOVEMBER, 1960.

WEST HERTFORDSHIRE MAIN DRAINAGE AUTHORITY.

(a) RESIDENT ENGINEER.
(b) JUNIOR ASSISTANT RESIDENT ENGINEER.
(c) CLERK.

APPLICATIONS are invited for the ABOVE APPOINTMENTS on the staff of MESSRS. JOHN TAYLOR AND SONS, Consulting Engineers, to supervise works being carried out on behalf of the West Hertfordshire Main Drainage Authority.

The projected works and those at present under construction consist of major extensions to the Board's sewage treatment works and trunk sewers, and include the construction of eight sludge digestion tanks and some 14 acres of sludge drying beds. Candidates for appointments (a) and (b) should preferably have had experience of this class of work, and must be capable of levelling, setting out, measuring and supervising work in progress, keeping records and checking accounts.

In all cases the appointments are of a temporary nature, but the programme of works prepared by the Board will extend for several years and, subject to satisfactory service, it is probable that the successful applicants would be given an opportunity to supervise these future Contracts.

Details regarding salaries and qualifications are given below:—

(a) Resident Engineer.

The appointment is at an inclusive salary of £1,750 per annum, rising by annual increments of £50 to £1,950 per annum.

Candidates must have an engineering degree and/or shall be corporate members of the Institution of Civil Engineers, and should have had considerable experience in the supervision of large civil engineering Contracts.

(b) Junior Assistant Resident Engineer.

The appointment is at an inclusive salary of £900 per annum.

Candidates should have had previous experience of the supervision of reinforced concrete work and/or sewer construction, and should be competent surveyors. Preference will be given to candidates holding the qualifications referred to for appointment (a).

(c) Clerk.

The appointment is at an inclusive salary of £650 per annum.

Candidates must be able to type, and should preferably have had previous experience of clerical duties in connection with civil engineering or building work, including checking of contractors' accounts.

Applications, stating age, qualifications and experience, together with copies of two recent testimonials or the names of two responsible referees, must be delivered to MESSRS. JOHN TAYLOR AND SONS, Chartered Civil Engineers, Artillery House, Artillery Row, London, S.W.1, not later than the 30th day of NOVEMBER, 1960.

APPOINTMENTS VACANT

SALESMAN REQUIRED, South Yorkshire area. Must be experienced in selling Ford-based industrial and earthmoving equipment. Situation pensionable; car provided.—Write full details to Box V.2946, "The Contract Journal."

PRECAST CONCRETE MANUFACTURERS

REQUIRE WORKS MANAGER. Must be capable organiser, used to handling labour and have sound knowledge of concrete.—Applications, in writing, to be marked "Works Manager," to:

CONCRETE PRODUCTS, LTD.,
Rosedale Works, Hunmanby, near Filey.

EXPERIENCED ESTIMATOR REQUIRED by civil engineering contractors. Head office appointment, near Reading, Berkshire. Permanent and progressive post, with group life and pension scheme in operation.—Write in confidence, stating age, full details of experience, with names of past employers, and salary required, to Box V.2955, "The Contract Journal."

SENIOR BUILDING PLANNER REQUIRED to take full charge of all group building planning. The applicant must have extensive building experience in both domestic and industrial building and must have had planning experience either at site or at head office level. Permanent position with good prospects, bonus and superannuation scheme in operation. Applications, which will be treated in confidence, should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

AGENT shortly REQUIRED. Sewers and sewage works in Berks., Bucks. and Oxon. Ability essential in site organisation, use of instruments and measurement.—Write details age, experience, and salary required, to Box V.2911, "The Contract Journal."

DRAUGHTSMAN.—Leading specialist building subcontractors REQUIRE experienced Draughtsman for project department. Good knowledge building construction essential. Capable of working on own initiative. Permanent and progressive. Superannuated position. Good salary for right man.—Write or 'phone: THE ROM RIVER CO., LTD., 100 Stewarts Road, S.W.8. MAC 6622.

MANAGER REQUIRED

For fleet of 15 "B" licensed vehicles mainly operating in building and C.E. work, clinker and hardcore distribution, Greater London area. Experienced men only should apply, giving details of past and present employment All applications treated confidentially.

WRITE BOX A.N.501, "THE CONTRACT JOURNAL."

CIVIL ENGINEER REQUIRED, with previous site experience, to train for a head office appointment as an ESTIMATOR. The position is permanent and carries a substantial salary and bonus. Entry into the company's superannuation scheme will be arranged at the end of 12 months' service.—Applicants should write, stating age, qualifications, experience to date, etc., to the Chief Estimator, THE MITCHELL CONSTRUCTION CO., LTD., Wharf Works, Peterborough, where applications will be treated in the strictest confidence.

SENIOR GENERAL FOREMEN. — We have several vacancies on our permanent contract staff on interesting contracts in the Midlands area for First-class Foremen able to take control of contracts in all aspects up to £1½m. in value. Vacancies on building projects require a tradesman background, and vacancies on civil engineering and reinforced concrete contracts require carpenter-training background. Applications will only be considered from men with proved similar experience over recent years.—Apply, with full particulars, for terms and conditions to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

PLANNING AND PROGRESS TECHNICAL ASSISTANT.—Applications invited from young men with H.N.C. in building, or carpenter and joiner-trained, and experience with bills of quantities and drawings, and some preplanning experience initial to the start of contracts, to assist Chief Planning Surveyor. The position is progressive and permanent at head office, and will carry a good starting salary. Applications to WILSON LOVAT AND SONS, LTD., Clarence Street, Wolverhampton.

BUILDING ESTIMATOR.—An opportunity exists for a man experienced in estimating for all types of building works, and preferably having A.I.B.E. or L.I.O.B. or H.N.C. qualifications. Should you be a suitable applicant we can offer a good salary and favourable conditions. — Please get in touch with WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

REQUIRED

For four-year contract in East Midlands:

(I) OUTSIDE SUB-AGENT

Qualified, with minimum of six years' all-round experience on contract sites, including construction of heavy concrete structures and sheet piled cofferdams.

(II) DESIGN AND PLANNING ENGINEER

Qualified, with experience of designing temporary and permanent works. Site experience with contractor or consultant essential.

Both these positions carry good salary and subsistence allowance, with entry into the company's superannuation scheme and prospects of advancement in an expanding organisation.

WRITE BOX C1915, LPE,
Romano House, 399/401 Strand, London, W.C.2.

LIVE REPRESENTATIVES or AGENTS WANTED to introduce a completely revolutionary but tried and proved concrete case-hardening and permanently dust-proofing process for concrete floors. Full backing and follow up by our highly trained technical staff. Contracts can run into many thousands of pounds, and a high rate of commission will be paid.—Write in full confidence to CONCRETE IMPROVERS, LTD., 270 Pershore Road, Edgbaston, Birmingham, 5.

YOUNG ambitious ESTIMATOR REQUIRED for expanding firm of civil engineering and agricultural contractors.—E. DOE AND SONS (CONTRACTS), LTD., Fyfield, Ongar, Essex. Tel.: Fyfield 238.

FIRST-CLASS AGENT REQUIRED to take full charge of water main contract in the Worcester/Tenbury area, approx. two-year duration.—Apply in writing, stating age, experience, salary required, to GROCOCK AND DAY, LTD., 26 Mayfield Road, Leicester.

APPOINTMENTS VACANT

ESTIMATOR REQUIRED for civil engineering.—SENIOR ESTIMATOR REQUIRED for large civil engineering works. Permanent position, pension scheme, good salary and prospects.—Apply in writing, giving full details of experience, etc., M. J. GLEESON (CONTRACTORS), LTD., BP/WSB, C.E. Department, Haredon House, London Road, North Cheam, Surrey.

FITZPATRICK AND SON (CONTRACTORS), LTD., REQUIRE AGENTS experienced in motorway, sewer and road reconstruction. May be required to travel.—Apply in writing, giving details of previous experience, etc., last three employers and duration of employment with each, to 455, Old Ford Road, Bow, E.3.

WHITLEY MORAN AND CO., LTD., REQUIRE JUNIOR ENGINEERS, preferably with technical training and/or some site experience, for site supervision on current contracts and for head office duties. Vacancy also exists for GRADUATE ENGINEER.—Send full particulars age, experience and salary required to WHITLEY MORAN AND CO., LTD., 5 Clo Hall Street, Liverpool, 3.

SITE ENGINEERS REQUIRED for C.E. contracts in East Anglia. Good prospects, with permanent position and superannuation scheme, for suitable applicants.—Write, stating age, experience, and salary required, to Box V.3026, "The Contract Journal."

SITE QUANTITY SURVEYORS

REQUIRED by well-established building and civil engineering contractor in the north-west. Age approx. 30 to 45, and should have some qualifications. Must have had several years' experience on contract sites and be capable of supervising the work of site measuring staff. Must be fully mobile within the U.K., and possession of own car would be an advantage. This is a permanent staff appointment, with pension rights and good remuneration.—Write, in confidence, quoting Reference QS126, giving full details of age, qualifications and experience, to:

BOX V.2896, "THE CONTRACT JOURNAL."

OVERSEAS. — Experienced men in the following categories REQUIRED for large civil engineering contract overseas: FOREMAN CARPENTER—with first-rate shuttering experience and able to look after concreting, steelfixing and heavy timber construction; PILING FOREMAN—experienced in sheet piling, concrete piling, cofferdams, general excavation and concrete work and heavy timber construction; EXCAVATION FOREMEN—experienced in large-scale muck-shifting and in handling a number of draglines, bulldozers, etc. Other general experience an asset; CONSTRUCTION FOREMEN—experienced in general excavation and concrete work and in heavy timber construction. All European staff on this job are hard, tough workers. The job is large and scattered and goes at a fast pace. Candidates must fit in with all this. Good climate. Two-years' tour. Bachelor quarters only available.—Write Box V.3043, "The Contract Journal."

CONTRACTORS' AGENTS REQUIRED for medium and large civil engineering contracts in the Midlands and North-Eastern England. Applicants should have extensive experience of civil engineering construction work, including reinforced concrete structures. Good prospects with salary commensurate with experience. Bonus and superannuation schemes in operation.—Applications, which will be treated in confidence, should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

CIVIL ENGINEER

REQUIRED for civil engineering contracts, including heavy foundations, reinforced concrete bridge works and sewage disposal works. Successful applicant would be required to work under the control of a civil engineering agent, and previous experience in this type of work is essential. Excellent prospects are offered in a well-established and expanding organisation. We have a progressive staff policy operating superannuation, profit-sharing schemes and assistance in car purchase.—For further details and application form, apply, in confidence, giving brief particulars, to:

J. Wright, Construction Director,
C. BRYANT AND SON, LTD.,
65 Whitmore Road, Birmingham, 10.

COMPETENT ENGINEER REQUIRED by small established company, for setting-out contract on Merseyside. To commence immediately. Salary commensurate with ability.—Write full particulars to Box V.3023, "The Contract Journal."

CARPENTERS REQUIRED immediately for bridge contract in Worcester. Production bonus and subsistence. — Apply on site or write to General Foreman, LOMOUNT CONSTRUCTION, LTD., adj. The Rectory, Primsland, near Hadzor, Droitwich. Telephone: Droitwich 2004.

CIVIL ENGINEER REQUIRED for large overseas contract. All European staff on this job are hard, tough workers. The job is large and scattered, and goes at a fast pace. Candidates, aged 25 to 35, must fit in with all this. Good climate; two-year tour. Single quarters only available.—Write Box V.3046, "The Contract Journal."

AGENT REQUIRED for heavy civil engineering contract in South Wales. Must be experienced in all classes of C.E. works. Age 30-40 years. This appointment offers permanency and ample scope for advancement, and the successful applicant would be expected to settle in South Wales. Entry into the company's pension and profit-sharing schemes will be arranged after period of proven ability.—Applications required in writing only, giving full details of age, experience, previous employers, etc., which will be treated in confidence, to Area Manager, G. PERCY TRENTHAM, LTD., Roath Basin, Docks, Cardiff.

ENGINEER/AGENT REQUIRED for dock reconstruction work, Hull and Goole. Long-term employment with excellent prospects. A qualification an advantage. — Write Box V.3041, "The Contract Journal."

COST CLERK REQUIRED, London office expanding building company. Responsible to director for cost and analysis.—Apply own handwriting, stating age, experience, salary, to Box V.3040, "The Contract Journal."

QUANTITY SURVEYORS and **ASSISTANT QUANTITY SURVEYORS** REQUIRED for important contracts in Bristol and district. Successful applicants will be appointed, after satisfactory initial service, to permanent positions offering good experience and opportunities for advancement.—Reply in confidence, stating age, training, experience, and salary required, to W. E. CHALKE AND CO., LTD., Langford Road, Weston-super-Mare, Somerset.

APPOINTMENTS VACANT

CLERK OF WORKS REQUIRED for sewerage and sewage disposal scheme in Khartoum. Salary £1,300 per annum plus gratuity.—Applications to HOWARD HUMPHREYS AND SONS, West Street, Epsom, Surrey. Please quote Ref. 406.

THIS SITUATION could be a career for the right type of man. Massey-Ferguson Industrial Distributors need a REPRESENTATIVE to handle sales of industrial tractors and diggers, etc. Previous experience with industrial equipment, or the building or allied trades, absolutely imperative. — Write Box V.3025, "The Contract Journal."

SIR LINDSAY PARKINSON AND CO., LTD.

REQUIRE SENIOR and ASSISTANT MEASURING SURVEYORS for large and interesting contracts in the West and Northern Counties.—Write, giving full details of previous experience, age and salary required, to:

Chief Surveyor,
SIR LINDSAY PARKINSON AND CO., LTD.,
6 Lambeth Road, London, S.E.1.

ASSISTANT CIVIL ENGINEERS. — RICHARD COSTAIN, LTD., have two vacancies for Assistant Civil Engineers to work on sites in the U.K. Applications are invited from men with at least three years' site experience since graduation. These are progressive positions offering a wide variety of experience on heavy civil engineering works.—Please apply to Personnel Officer, 111 Westminster Bridge Road, London, S.E.1.

SENIOR INDUSTRIAL REPRESENTATIVE REQUIRED by leading tractor, agricultural and industrial machinery distributors. Applicants for this permanent position must be energetic, ambitious, and fully experienced in the selling of industrial and allied equipment. Preference will be given to applicant with sales experience on the J.C.B., Shawnee, Fordson and County range of equipment. The successful applicant will be provided with a suitable car and operate from our new agricultural and industrial division where large stocks of all types of equipment are held. Full service and advertising support given. Substantial commission in addition to basic salary and expenses, plus usual paid holidays, non-contributory pension scheme, etc. Assistance with removal expenses and accommodation if required.—Apply in own handwriting, with full details, in confidence to the Personnel Manager, PETERBOROUGH MOTORS, LTD., 27/39 New Road, Peterborough.

CONTRACTS AGENT

Qualified CIVIL ENGINEER with previous experience as Agent REQUIRED by civil engineering contractors for work in North Yorks. and South Durham area. Age group 30-40. Must be able to eventually assume complete control, develop and expand progressive engineering department. Starting salary range £1,350. Superannuation scheme. Car provided.—Please send brief personal particulars and full details of previous experience, which will be regarded as strictly confidential, to:

BOX V.2986, "THE CONTRACT JOURNAL."

REQUIRED immediately, First-class Man with complete knowledge of earthmoving machines and roadpaving machines. The position is one of utmost importance, and a good salary will be paid to the right man. Only persons of absolute integrity and experience are requested to apply in confidence. Write Box V.3029, "The Contract Journal."

GENERAL FOREMAN REQUIRED by civil engineering contractors operating in Southern and S.E. Counties. Must be capable of complete control of labour, setting-out and general organisation. Permanent position. Salary £750-£950 p.a.—Write full details to Box V.3077, "The Contract Journal."

J. I. CASE CO., LTD., REQUIRE very experienced ADMINISTRATOR to supervise sales and parts procedures. This is an exacting and responsible position calling for a man with a flair for administration and organisation, who should be prepared to travel between depots and distributors.—Reply in confidence to the Home Sales Director, J. I. Case Co., Ltd., Mill Road, West Drayton, Middlesex.

WANTED, WORKS MAINTENANCE ENGINEER, experienced all services, also erection of steel buildings. Progressive, permanent and pensionable post. House available. — FRED. WATKINS (ENGINEERING), LTD., Coleford, Glos.

CIVIL ENGINEER REQUIRED by private contracting company as Personal Assistant to the Managing Director, to train for executive position. Applicants must be technically well trained and have had site experience on sewers, roadworks, concrete structures, piling, and general civil engineering work; also some administrative experience, including measuring and preparing certificates. Preferably under 30. Salary to be agreed. Midlands area. This appointment is part of a plan for succession and has considerable prospects.—Write Box V.3065, "The Contract Journal."

JOHN LAING AND SON, LTD.

REQUIRE ENGINEERS for general site engineering services. Professional qualifications expected for those seeking senior posts, but applications also welcomed from men with good instrument experience. Full mobility is required. The company offers a pension scheme and other progressive benefits.—Apply, giving brief details of past experience, to:

The Personnel Manager (E.2),
JOHN LAING AND SON, LTD.,
Building and Civil Engineering Contractors,
London, N.W.7.

SITE QUANTITY SURVEYORS REQUIRED by well-established building and civil engineering contractors. Must have considerable experience of civil engineering and building sites, and be capable of carrying out all quantity surveying duties with regard to such contracts. Will also be required to supervise the work of site cost surveyors. Must be fully mobile within the U.K. Car owners will be paid mileage allowance. Permanent staff appointment. Salary by arrangement. Pension scheme.—Quote Ref. 1/53 when writing to Box V.3092, "The Contract Journal."

RESIDENT SITE ARCHITECT or **ENGINEER** REQUIRED for interesting project in South Wales commencing early in New Year and due to last 18 months. Salary in range £1,400-£1,500 per annum, depending upon experience. Possibilities of further employment to suitable candidate.—Write for interview to A. M. GEAR AND ASSOCIATES, 12 Manchester Square, London, W.1, stating Ref. 323/17.

APPOINTMENTS VACANT

A LEADING FIRM of London consultants has been engaged to assist in the appointment of a SENIOR AGENT. A large, internationally known company of engineering contractors offers outstanding career opportunities to a Senior Agent with at least 10 years' experience on projects of £1m. and over, involving all engineering aspects. At the moment he will be earning about £2,000 to £2,500 with a civil engineering contractor, but is now looking for a job with greater scope, greater responsibility and, of course, higher salary. The right man will receive a salary of £3,000, the opportunity to earn a substantial bonus, and first-class prospects of progress to top executive positions. A car will also be provided. Please write fully to Mr. R. J. Scott, AUSTIN KNIGHT, LTD., Incorporated Practitioners in Advertising, 212a Shaftesbury Avenue, London, W.C.2.

THE LUMMUS CO., LTD.
Designing Engineers and Constructors to the Petroleum and Chemical Industry, invite applications for the following staff. ARCHITECTURAL DESIGN DRAUGHTSMEN. Applicants should have five or more years' general experience, and preferably be of R.I.B.A. standard. Five-day week. Sickness and pension schemes.—Apply, in writing, to:

The Personnel Department,
THE LUMMUS CO., LTD.,
Imperial House, 80 Regent Street, London, W.1.

ASSISTANT RESIDENT ENGINEER REQUIRED for long-term coke-oven and bi-product contract in Yorkshire. Age 23/27 years. Degree or H.N.C. (Civil) desirable. Must be interested in the construction of complete industrial plants, including structural steel-work, pipework, heavy vessels and refractory brick-work. Should be prepared to travel at end of the contract. A permanent staff appointment with pension rights and good prospects. Salary in accordance with qualifications and experience.—Applications, quoting Ref. AR148, in confidence, to Contract Labour Department, SIMON-CARVES, LTD., Cheadle Heath, Stockport.

CHARGEHAND/FITTER REQUIRED for site work, used to all types of contractors' plant, including Smith 21s and Ruston Excavators. Good rate and subsistence.—Apply on site, or write to General Foreman, LOMOUNT CONSTRUCTION, LTD., adj. The Rectory, Primsland, near Hadzor, Droitwich. Tel.: Droitwich 2004.

THOMAS LOWE AND SONS, LTD., Curzon Street, Burton-upon-Trent, REQUIRE an ESTIMATOR. Applicants should have sound knowledge of price build-ups for major building works. A Builder's Surveyor, aged about 25-30, with some estimating experience, would be considered. Assistance with housing if required.—Apply in writing, stating age, salary required, and full details of experience.

GENERAL FOREMAN/AGENT

REQUIRED for road and sewer contracts up to £100,000 in value. Must be good organiser and understand cost control.—Write, giving full particulars, to:

H. C. JANES, LTD.,
183 High Town Road, Luton.

HOLLOWAY BROTHERS (LONDON), LTD., have a vacancy in their building division for a SENIOR BONUS SURVEYOR. Duties will include supervision and operation of the company's incentive bonus scheme for a group of sites. Applicants should have sound experience of incentive payment schemes and the ability to train and supervise staff. A knowledge of work measurement and target setting is essential. There is scope for advancement. The company offers three weeks' annual holiday. 5-day week and canteen facilities on the premises.—Applications, giving details of age, experience, and present salary, should be addressed to the Secretary, 157 Millbank, London, S.W.1.

CONTRACTORS' ENGINEERS, Junior and Senior, REQUIRED for industrial civil engineering contract in Lanarkshire. Salary commensurate with experience. Good prospects, bonus and superannuation schemes in operation.—Applications in confidence, stating age, experience, and salary required, to Personnel Manager, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

ASSISTANT CONCRETE MANAGER REQUIRED. Must have good experience of the production of hydraulically pressed paving and kerb by Fielding presses, and some commercial knowledge. The appointment is at our Widnes Works in the first instance and should lead to ultimate promotion at another branch within the company.—Apply with full details of past experience, and copy references, present salary, to the Managing Director, THE CROFT GRANITE, BRICK AND CONCRETE CO., LTD., Croft, near Leicester.

WILSON LOVATT AND SONS, LTD.
REQUIRE SURVEYOR for contracts in London and Home Counties. Age 25-35. Capable of dealing with all aspects of final accounts on contracts up to £1m. Civil engineering experience essential. Permanent position with good salary and working conditions. Pension and profit-sharing schemes in operation.—Applications, giving details of age, experience and qualifications, to:

Chief Surveyor,
WILSON LOVATT AND SONS, LTD.,
16 Grosvenor Crescent, S.W.1.

ENGINEER/AGENTS, aged about 35, are shortly REQUIRED by old-established firm of civil engineering contractors for medium-sized contracts in Northumberland and Durham. Successful applicants must have a knowledge of foundation work, reinforced concrete and, if possible, piling. They should have held a similar position with a reputable contractor for at least two years and be able to work to close programmes with bonus schemes operating. Pension scheme and car allowance available. — Apply in writing, stating age, experience, present position, and salary, to the Secretary, BRIMS AND CO., LTD., Pandon Buildings, Newcastle upon Tyne.

CASHIERS and COST CLERKS REQUIRED. Must be mobile. Good salary and prospects. Pension scheme.—Apply Box C.C.C., SIR LINDSAY PARKINSON AND CO., LTD., 6 Lambeth Road, London, S.E.1.

YOUNG MAN REQUIRED as ASSISTANT in contractors' plant hire company. Excellent opportunity to learn, with good future prospects. NEAGRON (CONSTRUCTION), LTD., Abbey House, Victoria Street, S.W.1. Abbey 5152.

APPOINTMENTS VACANT

SURVEYOR.—British civil engineering and building contractors REQUIRE a Surveyor or Measurements Engineer as Assistant to the Chief Surveyor of a subsidiary located in North-East Africa. Applicants should be qualified, aged 30-40, with varied previous experience, including several years in a contractors' organisation. A good knowledge of measuring, contract procedure and costing is essential. Some estimating experience would be an additional advantage. This is a progressive post in an expanding organisation. Initial tour 18 months, followed by 12 months' tours, with annual home leave. Good salary, married accommodation, and family's passages are provided.—Write, with full details, to Box V.3082, "The Contract Journal." Ref. NOP.

ASSISTANT CONTRACTS MANAGER.—Prominent British contractors REQUIRE a qualified Civil Engineer in the London office of their overseas organisation. The successful applicant must be qualified, preferably a graduate, aged 35-40, with several years as agent in charge of important works, plus some foreign experience. He will be London-based, will supervise one or more overseas contracts, and must be prepared to make occasional trips abroad at short notice for periods from two weeks to three months. This is a permanent, pensionable position. Written replies, which shall be treated in confidence, should be sent to Box V.3081, "The Contract Journal."

HUMPHREYS, LTD.
REQUIRE ASSISTANT CONTRACT MANAGERS for London and Home Counties. Applications welcomed from tradesmen/general foremen, surveyors, engineers, planning or production trained men. It is important that applicants are the right material, have had experience of substantial work, and are prepared to work hard and accept responsibility. These appointments are long-term, good salary, conditions, superannuation, and assisted further training. Good promotion prospects.—Please write, with brief particulars, in the very strictest confidence, to:

Personnel Department,
HUMPHREYS, LTD.,
199 Knightsbridge, S.W.7.

AGENT REQUIRED for interesting and important building contract, London area. Used to high-quality concrete work and management of contracts of £1m. State salary required, when available, and full details of experience. — Write Box V.3089, "The Contract Journal."

PLANT FITTERS REQUIRED immediately for bridge contract near Worcester. Must be used to all types of contractors' plant. Good rate and subsistence to suitable men.—Apply on site, or write to General Foreman, LOMOUNT CONSTRUCTION, LTD., adj. The Rectory, Primsland, near Hadzor, Droitwich. Tel.: Droitwich 2004.

TECHNICAL BUILDING ASSISTANT REQUIRED for estate department of a large undertaking. Knowledge of building construction, methods and maintenance. Ability to survey, prepare specifications and drawings, estimate costs and supervise works of maintenance and new structures. Knowledge of Building Acts, By-laws and housing grants essential. Commencing salary £1,015 per annum. Contributory superannuation scheme and other benefits.—Write, giving full particulars as to age and experience, to Box V.3083, "The Contract Journal." Closing date: the 28th November, 1960.

A LARGE FIRM of building and civil engineering contractors in Western Region have a vacancy for first-class man as CHIEF ASSISTANT to Plant Manager. Applicants should have wide mechanical engineering knowledge, and experience in the application of contractors' plant; be good organisers, and able to accept responsibility. Probable age would be 35-45. — Write fully in confidence, stating salary, expected, to Box V.3045, "The Contract Journal."

PLANT STOREKEEPER WANTED for new plant depot of large engineering organisation approx. 20 miles north of London. Must be fully experienced in the handling of contractors' plant spares. Subsistence will be paid where applicable during probationary period, then housing accommodation can be offered. Permanent, progressive position. Contributory pension scheme carrying life assurance benefits.—Please write in first instance, giving full details, to Box V.3084, "The Contract Journal."

For Advertisements received too late for classification see page 905

APPOINTMENTS WANTED

CIVIL ENGINEERING EXECUTIVE. Qualified Engineer, age 52, General Manager and consultant of large contracting group, DESIRES CHANGE, based in London or Home Counties. Good commercial background. Competent high-level negotiator of wide experience. Highest references. Write Box W.3001, "The Contract Journal."

ENGINEER/AGENT, aged 34, with 18 years' overseas experience of survey, design and construction of roads, airfields, industrial buildings, pipelines and small marine works, SEEKS APPOINTMENT at home or overseas.
Write Box W.3073, "The Contract Journal."

GENERAL / CONTRACTS MANAGER, C.E. and building, over 20 years in management, DESIRES CHANGE. Medium or small company wishing to expand. Some estimating and quantity surveying and negotiations at highest level. Grammar school education. Available one month.
Write Box W.3086, "The Contract Journal."

PLANT MANAGER, 35, with wide experience of C.E. and building plant, transport, etc., SEEKS SIMILAR POSITION with progressive company. Costing, spares control, overhaul, purchase, sales and hire, site maintenance and bulk earthmoving.
Write Box W.3093, "The Contract Journal."

CIVIL ENGINEER, at present in control of medium/large concern, DESIRES EARLY APPOINTMENT with well-established company as GENERAL MANAGER / CONTRACTS MANAGER or AREA MANAGER. Vast experience and high reputation. Control all aspects of the industry. Strong personality, drive and impeccable achievements. Highest references.
Write Box W.3094, "The Contract Journal."

WORK REQUIRED

SITE CLEARANCE, BULK EXCAVATION. JANES AND CO. LTD., Trading Estate, Slough. Telephone: Slough 20361—Ext. 4.

BULK EXCAVATIONS, any quantity quoted for. Own plant and lorries.
COFF AND SON (EXCAVATIONS), LTD.
Buckhurst Hill, Cheapside, Ascot, Berks.
Ascot 1026/7.

WORK REQUIRED

UPROOTING.—TREES, STUMPS, HEDGES etc. We have the most experience and all modern equipment.—T. GRAVESON, LTD., Warton, Carnforth, Lancs. Telephone: Carnforth 381 and 382.

SAM BOOTH, LTD., Perrymount Chambers, Haywards Heath, Sussex. Tel.: Haywards Heath 1126 and 1258. SUB-CONTRACT or HIRE: D9s, with Bulldozer and Caterpillar 463 Scrapers.

SPECIALISED EXPLOSIVES SERVICES. U.K. and OVERSEAS MOBILE UNITS covering on ex-service strong points, sea walls and dangerous structures, etc.—124 Old Shoreham Road, Southwick, Sussex. Tel. Southwick 3791 or Shoreham 4193.

BULK EXCAVATION WANTED.—We have our own staff of qualified Civil Engineers, and have the following machines ready for work: D9s, D8s, D6s, D4s with Dozers, Scrapers and Rooters. Also Priestman Excavators with all equipments, and a fleet of new Tipping Lorries. No job is too small or too large. SMITHS PLANT HIRE AND CONTRACTORS (CHELTENHAM), LTD., Southam Court, 98 Prestbury Road, Cheltenham, Glos. Tel. 52021/56419/56473.

EXCAVATION SUB-CONTRACTS. Technical staff available to analyse, programme and price complex projects. Particular attention given to finish and compaction. D9, D8, TD18 and TD14 Scrapers, Excavators, Loading Shovels and Lorries available with competent and imaginative supervision for execution of work.—DICK HAMPTON, Broadview Farm, Blacknest, Alton, Hants. Tel. Bentley 1741.

WANTED, PAINTING, DECORATING CONTRACTS, SUB-CONTRACTS. Would consider labour only. Quantities priced. Industrial Painting a speciality. HAROLD DOWSON (BRIDLINGTON), LTD., 26 North Street, Bridlington.

BULK EARTHMOVING, direct contract or sub-contract. Also BULLDOZERS and SCRAPERS for HIRE.—FRANK R. WALPOLE, LTD., 126 Wing Road, Leighton Buzzard, Beds. Leighton Buzzard 3351.

ALLEN OXFORD GRADERS for fine GRASSPHALTE LTD.,
Hampton Hill, Middlesex. Telephone: Molesey 4343.

IF TREES, ROOTS or UNDERGROWTH feature in your contract, we would be pleased to quote for their economical disposal.
BAGSHOT SAWMILLS LTD.,
32 London Road, Camberley, Surrey. Telephone 14.

WANTED, HIRE or CONTRACT WORK for modern fleet of DW21s, D9s, D8s, 15-ton Rear Dump Euclids and 35RB Face Shovel.—Apply: BRODERICK AND RYAN, LTD., 421 Nottingham Road, Ilkeston, Derbys. Telephone 4381/2.

IF GRADING, SEEDING, TURFING and PLANTING form part of your CONTRACT, we will be pleased to quote you.—HOLDRUP, 139 Bells Hill, Barnet. Telephone 9111.

TARMACADAM AND BITUMINOUS MACADAM SURFACING WANTED. — Barber-Greene (new 1960) and roll Roller range to 10 tons. HIRE, CONTRACT or SUB-CONTRACT. — D. S. O'BRIEN AND CO., Olive Mount, Birkenhead. Tel.: Birkenhead 6605.

DROTT SKID SHOVEL BTD6, fitted with Boughton Winch, for HIRE at keenest rate. — JAMES COOPER, LTD., 28 Kensington Church Street, London W.8. Tel.: Western 3412.

SITE CLEARANCE CO., LTD., specialists in removal of trees and roots. Explosion Engineers and Demolition Contractors.—Delph Dene, Quarry Lane, Appleton, Warrington. Telephone: Stockton Heath 309.

BULK EXCAVATIONS and SITE WORKS undertaken DIRECT or on SUB-CONTRACT basis. Quotations given for large or small contracts anywhere.—S. AND L. BULL BROS., LTD., 126A High Street, Winchester. Telephone: Winchester 2264.

CONTROLLED EXPLOSIVES, LTD., specialise in the fragmentation of mass and reinforced concrete, inside or outside buildings. Demolition of bridges and chimneys, mass rock, trenching, sewage beds, engine beds, etc., and deep drilling for quarries. Particulars from 11 Church Street, Oldbury, Birmingham. Telephone: BROadwell 3117.

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Town Hall,
Wolverhampton.
8th November, 1960.

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J. V. OLDFIELD, M.Inst.C.E.,
Borough Engineer and Surveyor.
Municipal Offices,
Town Hall Square,
Grimsby.
November, 1960.

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The Council does not bind itself to accept the highest or any Tender received.
WILFRID C. WIGNEY,
Council Offices, Clerk of the Council.
Waverley House,
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17th November, 1960.

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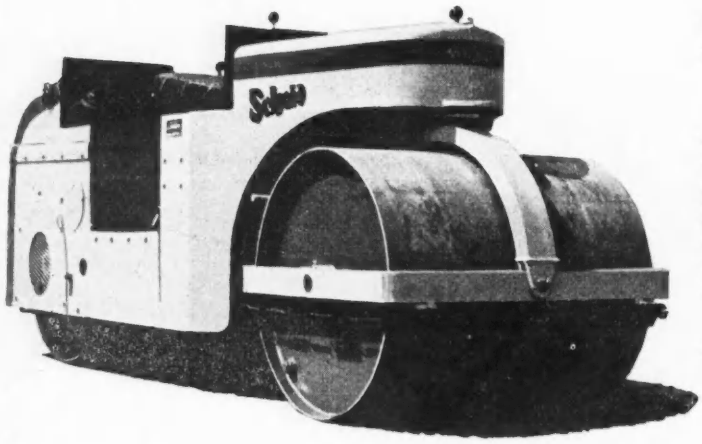
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COUNTY BOROUGH OF SOUTHEND-ON-SEA.

Contractors interested in submitting a TENDER for RAILINGS to PIER HILL FOOTBRIDGE AND PIER STEPS, involving Supply and Erection of 100yd. of Railing, should submit their names, together with a deposit of £2, before MONDAY, the 28th November, 1960, to the Borough Engineer and Surveyor for inclusion on a list of contractors from whom Tenders will be invited. The deposit will be refunded on receipt of a bona-fide Tender and/or the return of all loaned documents.

Sealed Tenders, addressed to the undersigned and endorsed "Railings for Pier Hill Footbridge and Pier Steps," are to be delivered to this Office by 3 p.m. on a date to be specified, and no Tender received thereafter will be considered.

No Tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

COUNTY BOROUGH OF NEWPORT.

TENDERS are invited for the SUPPLY of the FOLLOWING:

One Vehicle-mounted Diesel-driven Compressor, to take up to three tools and be capable of operating at least two heavy breakers at any one time.

Prices to include for Painting and Lettering to instructions.

Tenders, with full Specification, time required for delivery, etc., to be submitted in plain sealed envelope suitably endorsed and not bearing any name or mark indicating the sender, must reach the TOWN CLERK, Civic Centre, Newport, Mon., not later than 1 p.m. on MONDAY, the 28th November, 1960.

COUNTY BOROUGH OF BRIGHTON.

HIGHWAYS ACT, 1959. CODE OF 1892.

SALTDEAN VALE.

TENDERS are invited for COMPLETING the STREET WORKS in Saltdean Vale from ARUNDEL DRIVE to MOUNT DRIVE, length 575yd.

The works consist of Laying Kerb and Flag-paved Footways, Widening and Repairing the Existing Carriageway, Surface Drainage, and incidental works.

The Bill of Quantities and Contract documents can be obtained, and the General Conditions of Contract and Drawings inspected, at the Office of D. J. HOWE, Borough Surveyor, 26-30 King's Road, Brighton.

Tenders, with priced Bill of Quantities and other documents, must be returned in the envelope provided, bearing no indication of the sender's identity, not later than Noon on 30th NOVEMBER, 1960.

The Council is not bound to accept the lowest or any Tender.

W. O. DODD,
Town Clerk.

Town Hall,
Brighton.
November, 1960.

BOROUGH OF GOSPORT.

CONSTRUCTION OF BROWNDOWN ROAD AND ROUNDABOUT.

TENDERS are invited for the CONSTRUCTION of a 100ft. diameter ROUNDABOUT and 1,560yd. of FLEXIBLE BASE CARRIAGEWAY, 24ft. wide in a road of overall width 60ft., together with one 6ft. wide Footpath in Tarmac, and Open Ditch Drainage, and other ancillary Works, including Excavation and Filling Two Culverts, Boundary Fencing and Bituminous Macadam Basecourse Work.

Contract documents and Form of Tender may be obtained from the Borough Engineer and Surveyor, The Hall, Trinity Green, Gosport, on deposit of £2 2s., returnable after submission of a bona-fide Tender, and/or the return of all documents. Tenders should be forwarded in plain sealed envelopes bearing neither name nor mark to identify the sender, but endorsed "Tender for Browndown Road," addressed to the Town Clerk, Town Hall, Gosport, and are to be received not later than THURSDAY, the 15th December, 1960. The Priced Bills of Quantities are also to be forwarded to the Town Clerk by the same date, but in a completely separate container, endorsed "Priced Bills of Quantities—Browndown Road," and this container should bear the name of the contractor.

The Council do not bind themselves to accept the lowest or any Tender.

E. ADDENBROOKE,
Town Clerk.

Town Hall,
Gosport.

CITY OF SHEFFIELD.

TENDERS are invited for the UNDERMENTIONED SUPPLIES to all Departments of the Sheffield Corporation from 1st January, 1961, viz.:—

Bedding; Dusters and Cleaning Cloths; Floor Coverings; Miscellaneous Textiles; Towels; Woollen Blankets; and Tobacco.

Groceries; Meat; Fish; Tea; Coffee; Bread; Flour; Provisions and Bacon.

The necessary Forms of Tender may be obtained on application to the Town Clerk, Town Hall, Sheffield, to whom completed Forms of Tender must be delivered not later than 10 a.m. on FRIDAY, 2nd December, 1960.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield.
November 17th, 1960.

METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD, NEW SOUTH WALES.

AVON-SOUTH COAST WATER SUPPLY.

CONTRACT NO. 3462-W.

TENDERS are invited for the MANUFACTURE, SUPPLY, TESTING, DELIVERY and INITIAL MAINTENANCE of TWO ALTERNATIVELY THREE OR FOUR AUTOMATIC NEEDLE-TYPE INLET CONTROL VALVES 30in. nominal bore, with associated Electric D.C. Motors and Control Gear; also TWO ALTERNATIVELY FOUR 30in. dia. MANUALLY OPERATED STOP VALVES.

Tender documents, including the Specification and Drawings, can be obtained on application to the Agent-General for New South Wales, 56 Strand, London, W.C.2.

Tenders must be submitted to the METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD, 341 Pitt Street, Sydney, New South Wales, Australia, by 2 p.m. on TUESDAY, 13th December, 1960.

BOROUGH OF HIGH WYCOMBE.

HERBERT ROAD (SECTIONS 1, 2 AND 3)

PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP of part of HERBERT ROAD (approx. length 330 lin. yd.). The works involve the Laying of a 9in. dia. Surface Water Sewer, Construction of a Concrete Carriageway and a Tarmacadam Carriageway, Tarmacadam Footpaths, Verges, etc.

Conditions of Contract and Drawings may be inspected on any day (Saturdays excepted) during normal office hours, and the Specification, Bill of Quantities and Form of Tender may be obtained on application to the undersigned, upon the deposit of Two Guineas, which sum will be refunded on receipt of a bona-fide Tender.

Tenders, in a plain sealed envelope, endorsed "Tender for Herbert Road P.S.W.," must be delivered to the undersigned not later than Noon on FRIDAY, 2nd December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. PARKINSON, M.A., A.M.I.C.E.,
Borough Engineer and Surveyor.

Municipal Offices,
High Wycombe.

BOROUGH OF OSSETT.

CONTRACT 3/60.

PRIVATE STREET WORKS.

BELGRAVE STREET AND OTHERS.

FIXED-PRICE TENDERS are invited for the ABOVE WORKS, which includes approximately 1,200yd. Kerbing, 5,600 sq. yd. Carriageway, 4,000 sq. yd. Flagged Footpaths, 581 sq. yd. Concrete Crossings, Drainage and ancillary Works.

General Conditions of Contract and Drawings may be seen at the Borough Surveyor's Office, Town Hall, and Specifications, Bills of Quantities and Forms of Tender may be obtained from that office on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain envelopes sealed and endorsed as detailed, must reach the undersigned not later than 10 a.m. on SATURDAY, the 10th December, 1960.

The Council does not bind itself to accept the lowest or any Tender.

(Signed) B. FREEMAN,
Town Clerk.

Town Hall,
Ossett.
11th November, 1960.

CITY OF GLOUCESTER.

ROAD IMPROVEMENT, QUAY/COMMERCIAL ROAD.

TENDERS are invited for CONSTRUCTION of ROAD, SEWER and appurtenant Works at Junction of THE QUAY and COMMERCIAL ROAD.

Form of Tender Conditions of Contract, Specification and Bill of Quantities may be obtained from the City Engineer and Surveyor, 21 Eastgate Street, Gloucester, on receipt of a deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

The Tender, enclosed in a plain sealed envelope endorsed "Tender, Improvement of The Quay/Commercial Road Junction," is to be delivered to the undersigned not later than 10 a.m. on MONDAY, 12th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. G. W. BOGGON,
Town Clerk.

Guildhall,
Gloucester.

BURTON LATIMER URBAN DISTRICT COUNCIL.

BRIDLE ROAD HOUSING SITE SEWERS.

The above Council is prepared to receive TENDERS from suitably experienced contractors for the LAYING, in fields, of 2,200yd. of 6in., 9in., 12in., 16in. and 21in. dia. CONCRETE TUBE SEWERS, together with Manholes, at BURTON LATIMER, near Kettering.

Drawings may be seen at the Offices of the Consulting Engineers, PICK, EVERARD, KEAY AND GIMSON, 6 Millstone Lane, Leicester, from whom the Specification and Bill of Quantities may be obtained on payment of a deposit of Three Guineas which will be refunded on receipt of a bona-fide Tender.

Tenders, on the form supplied and in the envelope provided, to be delivered to the undersigned not later than 10 a.m. on TUESDAY, 13th December, 1960.

The Council does not bind itself to accept the lowest or any Tender.

C. E. LANSOM,
Clerk to the Council.

Council Offices,
Burton Latimer,
Kettering.

HARPENDEN URBAN DISTRICT COUNCIL.

CONSTRUCTION OF FOUL SEWER IN WHEATHAMPSTEAD ROAD, GREEN LANE CLOSE AND MEADWAY, HARPENDEN.

TENDERS are invited from experienced contractors for the EXCAVATING for and LAYING of approximately 3650 lin. yd. of 6in. diameter and 50 lin. yd. of 4in. diameter SALT GLAZED STONEWARE FOUL SEWER, including Construction of One Concrete Manhole and Four Brick Manholes.

Copies of the Specification, Bill of Quantities, Form of Tender, etc., may be obtained, and Drawings inspected, at the office of the Engineer and Surveyor, Council Offices, Harpenden Hall, Harpenden, Herts., upon payment of Two Guineas, which will be returned on receipt of a bona-fide Tender and the return of all documents.

Tenders, in plain sealed envelopes marked "Tender for Wheathampstead Road Drainage," to be delivered to undersigned not later than SATURDAY, 17th December, 1960.

The Council does not bind itself to accept the lowest or any Tender.

FREDERICK A. HARRIS,
Clerk of the Council.

Harpenden Hall,
Harpenden.
12th November, 1960.

WATFORD plant hire firm **REQUIRE** capable, energetic man to control, cost and keep proper records of all plant. Must have previous experience in this capacity. Excellent opportunity for right man. Pension scheme in operation.—Write in confidence, stating age, experience, and salary expected, to Box V.3060, "The Contract Journal."

BOROUGH OF MALMESBURY.

SEWERAGE AND SEWAGE DISPOSAL.

The Council invite FIXED-PRICE TENDERS from contractors having experience in similar work for the LAYING of about 4,000 lin. yd. of 4in. to 21in. diameter SEWERS, together with Manholes and other ancillary Work, and the CONSTRUCTION of DISPOSAL WORKS, comprising Tanks, Filters, Drying Beds, and other appurtenant Works, and Three Pumping Stations.

Tendering documents may be obtained from the Council's Consulting Engineers, MESSRS. HARVEY, McGILL AND HAYES, 38 Market Place, Chippenham, Wilts., at whose office plans may be inspected by appointment during normal office hours.

Applications are to be accompanied by a cheque for Five Pounds, payable to the Borough of Malmesbury and, in the case of contractors who have not previously carried out work for the Council or under the direction of the Engineers, by particulars of similar work done, and the names and addresses of the Engineers concerned. The deposit will be returned upon the receipt of a bona-fide Tender, not subsequently withdrawn, and the return of all documents.

Tenders are to be delivered to the undersigned not later than 10 a.m. on 31st DECEMBER, 1960, in a plain sealed envelope endorsed "Sewerage and Sewage Disposal."

The Council do not bind themselves to accept the lowest or any Tender.

F. J. WESTON,
Town Clerk.

Town Hall,
Malmesbury, Wilts.
14th November, 1960.

URBAN DISTRICT COUNCIL OF CUCKFIELD.

ERECTION OF 60 HOUSES AT ASHENGROUND WOOD, HAYWARDS HEATH.

TENDERS are invited for the ERECTION of 60 HOUSES at Ashenground Wood, Haywards Heath.

Forms of Tender and other Contract documents may be obtained from the Council's Surveyor on payment of a deposit of Two Guineas, which will be returned on submission of a bona-fide Tender and/or the return of the Contract documents.

Tenders, in plain sealed envelopes to be supplied, endorsed "Tender for Houses—Ashenground Wood," but bearing no mark indicating the sender, must be delivered to the Clerk of the Council not later than Noon on WEDNESDAY, the 14th December, 1960.

The Council do not bind themselves to accept the lowest or any Tender, and a Tender submitted otherwise than as directed will be rejected.

J. A. EVANS,
Clerk of the Council.

Council Offices,
Oaklands,
Haywards Heath,
Sussex.
12th November, 1960.

URBAN DISTRICT OF BROWNHILLS.

ENGINEER AND SURVEYOR'S DEPARTMENT.

FORDBROOK LANE AND MILL ROAD, HIGH HEATH, PELSALL.

HIGHWAY IMPROVEMENT.

TENDERS are invited for CARRYING OUT a HIGHWAY IMPROVEMENT SCHEME for Fordbrook Lane and Mill Road, High Heath, consisting of the Reconstruction and Realignment of existing Carriageway and Footways.

The work comprises Earthworks, some 8,300 sq. yd. of Stone-pitched Carriageway Foundation, 8,800 sq. yd. of Carriageway Surfacing, the Provision and Laying of 2,500 lin. yd. of Precast Concrete Kerb, and the Construction of Footways; the Provision and Laying of 800 lin. yd. of 9in. and 6in. dia. Surface Water Sewers and Gully Connections, Manholes, Fencing, etc., together with all Incidental works.

Contractors wishing to submit a Tender should apply in writing for the Specification and Bill of Quantities to the Council's Engineer and Surveyor, Coombe House, Brownhills, near Walsall, Staffs., enclosing a deposit of Two Guineas which will be refunded on receipt of a bona-fide Tender.

The Drawings may be inspected at the above address during normal office hours at any time from the date hereof.

Tenders, endorsed "Fordbrook Lane Scheme," to be delivered in a plain sealed envelope to the undersigned not later than WEDNESDAY, 21st December, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

NORMAN WAINE,
Clerk of the Council.

Council Offices,
Brownhills,
Near Walsall,
Staffs.
10th November, 1960.

BOROUGH OF CROSBY.

ASSISTANT ENGINEER.

APPLICATIONS are invited for the ABOVE APPOINTMENT in the Borough Engineer's Department. The salary will be within the range A.P.T. to A.P.T. III, and will commence at a point commensurate with qualifications and experience.

Applications, on forms obtainable from the Borough Engineer, at the address below, must be received not later than WEDNESDAY, 7th December, 1960.

HAROLD O. ROBERTS,
Town Clerk.

Town Hall,
Waterloo,
Liverpool, 22.

STAVERTONS REQUIRE an experienced QUANTITY SURVEYOR for a permanent post in Cardiff. Capable of handling substantial contracts with minimum of supervision. Participation in superannuation fund and profit-sharing scheme after probationary period.—Write to Manager, STAVERTON CONTRACTORS (WALES), LTD., Imperial Buildings, St. Mary Street, Cardiff, marked "Confidential," giving full particulars.

AGENT/GENERAL FOREMAN REQUIRED immediately for two-year main drainage contract near Stamford. Capable of setting-out and levelling; initiative and drive essential. — Details to CECIL WILLIAMSON AND CO., LTD., Holly Lane, Chilwell, Notts. Telephone 254763.

CIVIL ENGINEER REQUIRED immediately on Stevenage By-pass contract. Must have previous experience of highway construction. Excellent remuneration and conditions for right man.—Apply, giving full particulars, to Project Manager, MARTIN COWLEY, LTD., Gipsy Lane, Knebworth, Herts.

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✻ FOR FURTHER DETAILS OF THIS EQUIPMENT SEE PAGE OF THIS ISSUE

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THE
CONTRACT JOURNAL
INCORPORATING
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

THE CONTRACT JOURNAL
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Editor:
LAWRENCE McCARTHY

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Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

OUTSTANDING MONEYS: WHAT CAN BE DONE?

THE large sums of money withheld from contractors for one reason or another are nothing short of an artificial and avoidable brake on the industry. Delays in the payment of final accounts and in the release of retention funds are two obvious examples, together with the size of the retention itself. It isn't any wonder that contractors are often short of the liquid finance so necessary to promote development along efficient channels.

It is difficult to estimate precisely what total sum is outstanding from these causes. It is at least £100m., a figure which represents between 5 and 10 per cent. of the industry's annual turnover, and it would not be surprising if it were much more—even £500m. is not unlikely.

It is a well-known fact that clearing final accounts often takes two or three years. A number of explanations can usually be offered, but that which may be calculated to displease contractors most is the "pre-payment" audit carried out by a local authority's financial staff.

The trouble starts when, as usually happens, the authorised financial staff become involved in matters beyond their province. This results in arguments about technical details, duplication of the quantity surveyor's work, and inevitable trouble and delay. As for retentions, it is sufficient to say that the phrase "not to exceed 10 per cent." appearing in the Appendix to the R.I.B.A. Form of Contract has come to be generally regarded as "10 per cent. —no more, no less," regardless of the reputation of the contractor.

In all fairness, it must be recorded that building owners, for their part, sometimes have cause for complaint. A common one is that because the amount of money involved is small there is little incentive for the main contractor to send in his account quickly, particularly if the sub-contractors are also dilatory in submitting details of the payments due to them.

What can be done to improve the situation? No new formula is available. What is required is a general tightening up. Much could be achieved if all local authorities followed the advice of the Royal Institute of Public Administration contained in their study of Building Contracts for Local Authorities and, in particular, that part of it which refers to the obligations of the Chief Financial Officer thus:—

> "Confer with the architect and quantity surveyor at the beginning to agree what vouchers and other information will be required for the final audit and to tell them the form it will take; ensure prompt settlement of interim payments by using, if necessary, an urgent payments procedure; limit the scope of checking the final account to ensuring its accuracy and exclude an examination of its technical aspects; and ensure that the pre-payment audit does not cause any undue delay."

To this should be added — quantity surveyors, contractors and sub-contractors must maintain a sense of urgency in the completion of final accounts, no matter how small the amounts outstanding.

Authoritative advice is also to hand for dealing with the Retentions problem. The Joint Consultative Committee of Architects, Quantity Surveyors and Builders has frequently emphasised that "in the case of reputable contractors, chosen for example by selective tendering, consideration should be given by all concerned to reducing the amount of certified value retained substantially below the figure of 10 per cent. mentioned in the R.I.B.A. Form of Contract."

A much shorter settling-up period is urgently required. Profit margins today, despite the heavy load of work, are—as every contractor has come to learn—inadequate for providing a springboard for development. With a huge programme of building work of all kinds ahead, it is clear that such a frustrating position must not be allowed to continue.

John Sumner's Notebook . . .

WHEN building wages are increased it is reasonable to suppose that building costs increase. The question is, by how much? It is generally considered in the industry that on new work labour costs represent some 30 per cent. of the total cost of the job. Thus if building wages are increased by, say, five per cent. (and I would not like this figure to be taken as my forecast of the outcome of this year's wages talks) it is possible to do a rough and ready sum to arrive at the effect on building costs as a whole.

Now the building operatives, I learn, do not like calculations of this kind, because they have the effect of interpreting for the benefit of the general public the effect of wage awards to building men in terms which the public can understand. Unfortunately for the building operatives journalists do like this kind of calculation. This is not surprising, for it is part of their job to interpret wage awards in terms which newspaper readers can easily appreciate.

There was a time some years back when, with the aid of the Girdwood Committee's estimation of the number of man hours needed to build a local authority house, it was possible to show that a wage increase of so much must inevitably mean an increase in the cost of a house of so many pounds. The last Girdwood Report was published some nine years ago, so the basis of the reckoning today is a little bit out of date.

Perhaps those who know best about the effects of wage increases on building costs are the builders themselves. One who is not in any doubt on the matter is Mr. David Chaston, president of the Eastern Federation of Building Trades Employers. A local report of a speech he made in Essex the other day makes it clear that in his opinion a reduction of the working week to 42 hours, with a compensating pay rise of 3d. an hour, would mean—after taking into account the ½d. cost of living pay rise in February, increased holidays with pay contributions and the new national pensions scheme—another £50 added to the price of a house. In fact, he went so far as to say that all these increases add up to something like 15s. to 17s. per week per man extra.

Well, that is one man's view and I can almost hear the shout of disagreement coming from the N.F.B.T.O. headquarters at Clapham. Still, so far as I have been able to ascertain from numerous inquiries and telephone calls during the past month, this year's wages and hours talks are, at the time of writing, still a long way from being settled. It may therefore be that Mr. Chaston's forecasts are too high—or too low!

GOOFERS' galleries, public observation platforms, kerbside foremen's stands—call them what you will, have all had their fair share of publicity in past years. The extraordinary thing is that these facilities which building contractors make available to the public are confined, almost without exception, to the capital. So far as I can recollect provincial builders either do not appreciate or ignore the opportunities they give in helping the public to understand more about the building industry and its work. Public projection of building in this way is one of the cheapest and most effective forms of publicity any contracting firm could engage in. After all, it provides a ready-made opportunity for the public at large to see what a firm is doing and why. In other industries vast sums are allocated each year to enable parties of visitors to visit works and factories to see manufacturing processes in operation. The principals of such firms not only consider it to be good publicity, but also publicity that pays. Despite this lesson which is being taught almost every day of the week most builders have still not learned it. Site after site is completely surrounded by a six feet or more high hoarding, and only the passer-by who happens to be near the gate when a lorry is passing through manages to catch a glimpse of the exciting and mighty things being undertaken on the other side.

Perhaps those who may be prompted to think about providing goofers' galleries on their sites as a result of this note will get around to doing something about it one day. But they had better be quick about it because viewing galleries as such now seem to be a little bit out of date. Taylor Woodrow Construction's site in Gracechurch Street, in the City of London, is now graced—that must be the appropriate word—by a "televiewer" platform. It is a closed circuit installation on the new Midland Bank Overseas branch building and a 21in. monitor screen incorporated in the observation platform enables the public to watch progress in areas of the building previously hidden from watchers due to the height or complexity of the structure. A control unit mounted near the monitor screen enables spectators to move the camera in bearing and elevation to view different parts of the site.

All very wonderful isn't it? I don't know how much it costs, but I calculate that the publicity given to Taylor Woodrow's and the innovation in newspapers and on I.T.A. and B.B.C. television must, in terms of cash, amount to well over £2,000. Sounds like a good investment to me.

MANY merchants and distributors of building materials have doubtless been wondering why the Grey List produced by the London and Southern Counties Ironmongers' Association has been declared by the Registrar of Restrictive Trade Practices to be "not registrable," whereas the Building Industry Distributors' Blue List has been held by the Registrar to be registrable.

An explanation was given the other day by Mr. V. J. Fanstone, chief executive officer of B.I.D., when he addressed the council of that body in London. He said that there was a great difference between the two lists. The Ironmongers had passed a resolution confirming that their prices were "obtained" in the trade, or had been reprinted from other price lists. The B.I.D. list prices were calculated by their national pricing committee and the organisation could not in the circumstances claim that they were "obtained."

Although the Blue List is still published I think I ought to make it clear that its publication is now entirely independent of B.I.D.

I AM told that London bus drivers have no sentimental affection for any of the buses they drive, for the simple reason that they may be driving a different one every day of the month. There is one man in this world who must, at any time during the past 42 years have had quite a different outlook on his work and the vehicle for which he has been responsible. I refer to Mr. Trygve Stomberg who, since the end of the First World War, has been the operator of the world's oldest steamroller. The roller has just arrived at her final resting place in the Norwegian Technical Museum on the outskirts of Oslo. From here she will overlook the city whose roads she has helped to make and repair continuously for no less than 82 years, rolling in that time a distance equal to 12 circuits of the world.

Steamroller number 1457 was built for the Oslo Municipality by Thomas Aveling in Rochester, Kent, in 1878, only 13 years after he had proved that the steam roller was a practical engineering and economic proposition and thus inaugurated the mechanisation of road construction and maintenance.

It's an interesting little story, but it has something of a moral in it, too. Trygve Stomberg took charge of the roller 40 years after it first came into service. He then operated it and kept it in good running order for a further 40 years or more. This suggests that the diligence and care he exercised in this part of his duties was something above the average. And my instinct tells me that the general level of care taken in this field by the operators of expensive building equipment in this country is generally something below average. And I don't want any letters telling me that that puts the average somewhere in the middle of the North Sea!

TALKING of maintenance, I was interested to see the other day one of the maintenance voucher books which J. C. Bamford (Excavators), Ltd., issue to purchasers of their machines. After the style of the voucher book one gets if one is lucky enough to get a new car, it contains registration card, research questionnaire, information request card, warranty and maintenance vouchers up to 3,000 hours. Each voucher gives service instructions applicable to the hours worked so that the customer and distributor/dealer know exactly where they stand. Other manufacturers may issue similar books but this is the first of its kind I have seen. An excellent idea.

HOW long does it take to plan a new kitchen? Many experts spend a lifetime at it and then don't seem to be any nearer to a solution of the problems involved. Still, with the wealth of knowledge available in a county architect's department it would be reasonable to hope that an acceptable plan could be produced in a week or two. The West Riding architect's department took a year to prepare plans for a new kitchen at the Dodworth County Secondary School, near Barnsley. The Governors of the school are of the opinion that the plans could have been drawn up in one day and have decided to send a letter of protest to the county architect about the delay. During the debate on the subject the view was expressed that a child in standard six could have drawn up the plans with the same degree of competency.

I mention this matter, which has been publicised in Yorkshire papers, because in my view it is rather unfair for newspapers to report matters of this kind without taking steps to inquire about and report on the views of those parties chiefly concerned, in this case the West Riding county architect's department. It may be that there was other, more urgent, work on hand. It may be that there has been a serious shortage of staff. Newspapers generally try to give both views on such matters in the same report. When only one side of the issue is given the public tend to get a rather sensational and probably inaccurate impression of the whole business. When, as in this instance, a part of the building industry is concerned (and architects are part of the building industry, though they don't always want to admit it) one could hope that prompt steps are taken to give both sides of the story. I hope they have in this case, though so far I haven't seen any evidence of them.

TWO small items as postscripts. A few weeks back I referred to the agreement between the Pressed Brickmakers Association and the unions to reduce the working week in the brickfields and to increase wages and forecast that before

(Concluded on page 916)

PUBLIC WORKS AND MUNICIPAL SERVICES CONGRESS

This week some 20 Papers are being presented for discussion at the Public Works and Municipal Services Congress, Olympia. It is, of course, impossible to publish all the Papers in the Journal, *but some of the interesting points made by a number of the authors of the Papers presented in the first three days of the Congress are given in these columns.*

MOTORWAY CONSTRUCTION IN HERTFORDSHIRE

THE experience gained from the construction and use to date of the St. Albans By-pass was referred to by LT.-COL. C. H. FFOLLIOTT, county surveyor of Hertfordshire, in his Paper "Motorway Construction in Hertfordshire."

He said the specification for a high-pressure contract with short completion period must allow for the use of alternative materials, particularly for embankment and sub-base construction, in the event of extremely adverse weather. Provision should be made for draining the works during construction and generous provision made for permanent drainage.

It might well be advantageous to construct the underbridges first as a separate contract, so that earthmoving could proceed more rapidly and uniformly with better compaction behind bridge abutments.

Joints Still A Problem

The problem of forming and sealing joints in concrete carriageways was still not solved and required much investigation and experiment. The marking of white marginal strips and traffic lanes was already showing signs of wear and a long-life material was clearly needed. In marginal strips either a rough texture or the use of amber Catseyes was necessary for visibility on a wet night.

Hard shoulders should be increased in width from 8ft. to 10ft. to allow of adequate standing space for a vehicle, and should be of solid construction; the outer edge of a hard shoulder required strengthening to take wheel loads.

Traffic leaving a motorway was travelling faster than traffic entering. Exit slip roads at junctions must be carefully designed to allow of smooth traffic flow without any marked curvature until the vehicle had had time to slow down sufficiently. Reflectorised marker posts were essential to define curves on slip roads.

In regard to types of junction, the flyover roundabout, as at Pepperstock, had proved very satisfactory, but for a junction of only one road with the Motorway the trumpet-type junction as at Breakspears involved less weaving traffic and less cost, but occupied more land—20 acres as against 13 acres at Pepperstock.

Motorway patrols of the county police operated daily throughout the 24 hours and traffic generally was now flowing smoothly. It could be said with confidence that the motorway was fulfilling efficiently its purpose as a safe, fast-flowing through traffic route and was indeed worthy to take its place as one of Britain's first Motorways.

Stevenage By-pass

The following details of the design of the Stevenage By-pass, now under construction, were also given by Lt.-Col. ffolliott.

The by-pass is a scheme approximately 7½ miles long on which a great deal of work was carried out by county council staff during the years 1950-52 when the Stevenage New Town was being designed by the Stevenage Development Corporation.

The by-pass formed an essential part of the overall Development Plan of the New Town in which the residential area lies to the east and the industrial area to the west of the existing Great North Road (A.1). Financial restrictions resulted in the shelving of all work on the by-pass but the development of the New Town proceeded at full speed. Now through traffic on the Great North Road and workers in the new factories suffer long delays at times of beginning and ending work.

The southern starting point of the by-pass is at the northern end of the Welwyn By-pass where a new roundabout has been designed with three subways to carry cyclists and pedestrians under the new motorway, the Welwyn By-pass and the redesigned Great North Road. The dual 24ft. wide carriageways climb from the roundabout at a gradient of 1 in 26 for a distance of one mile and proceed northwards approximately parallel with the existing Great North Road and one mile from it. One intermediate connection is provided at Langley Sidings to give access to Stevenage New Town. The northern terminal of the by-pass will be at Corey's Mill with connections to the existing Great North Road and the Hitchin Road (A.602).

It is planned to continue the dual carriageways northwards with the Baldock By-pass soon after the Stevenage By-pass has been completed, and the design of the Corey's Mill junction allows for this.

Design Requirements

The design speed for the main carriageways is 80 m.p.h., the maximum gradient 1 in 26. The minimum radius of horizontal curvature 5,730ft., and the minimum sight line over vertical curves 750 at a height of 3ft. 9in. above carriageway surface. The standard crossfall on carriageways is 1 in 40. Headroom at bridges is 16ft. 6in. over roads, 7ft. 6in. for pedestrian and cycle track subways, and 10ft. for a bridle track subway.

Earthworks

Soil surveys indicated a wide variation of clays, gravels, silts, soft and hard chalks, typical of glacial deposits overlying chalk. California Bearing Ratios vary widely from 4 per cent. on the softer silty clays to over 30 per cent. on the gravels.

The maximum height of embankment is 35ft. and the deepest cutting 25ft. The side slopes of the cuttings and embankments vary with depth and soil, rounding of the tops of the cuttings is being provided. On one section of the new road north of Langley Sidings, the central reservation has been widened where it passes through woodland, in order to preserve some of the existing trees.

Surface Water Drainage

Where the new road is on embankment the surface water flows from the carriageway, over the hard shoulder and verge and down the face of the embankment to a ditch. In cuttings a porous pipe, subsoil drain, gravel backfilled is placed 2ft. from the back of the hard shoulder and is covered by the sub-base layer of the carriageway to prevent the gravel backfill being blocked with silt during construction of the road. Catchpits at intervals along the drain collect surface water into the drain. When the hard shoulder has been completed, a turfed channel will be formed between the toe of the cutting and the hard shoulder to carry the water which has flowed from the carriageways into the catchpits.

A subsoil drain is laid in the dished central reservation with catchpit gullies at intervals to collect water from abnormal rainstorms and from melting snow. On curves where one carriageway slopes towards the central reservation, a precast channel, to collect the surface water from the carriageway, is laid 3ft. from the marginal strip with the space between formed of hard shoulder construction. The water in the channel is picked up at intervals by gullies.

There is a lack of watercourses in the area of Stevenage By-pass because of the chalkbed underlying the drift soil formations. The surface water from the carriageway is therefore disposed of largely into soakaway lagoons.

Carriageway Cross-Section

Contractors were required to submit alternative prices for rigid and flexible construction as for the St. Albans By-pass. The Minister of Transport decided to adopt flexible type construction. The cross-section for the Stevenage By-pass now being used has been developed as the result of experience on the St. Albans By-pass.

The sub-base is of lean mix concrete generally 6in. thick laid with a crossfall of 1 in 40 over the width of the carriageway and hard shoulder. Lean mix concrete has been chosen for the sub-base to protect the subgrade and to enable the formation to be used by site traffic.

The carriageway marginal strips are formed with 12in. by 6in. precast concrete channel sections to B.S.340 laid on a bed 8in. thick and backed with concrete 7.5:1 aggregate-cement ratio, ¾in. aggregate. Lean mix concrete base to the carriageway is laid 10in. thickness between the channel blocks. The hard shoulder base is laid varying in thickness from 11½in. to 10½in. to give it an increased crossfall of 1 in 30.

At intervals beneath the hard shoulder cross drains will run from the carriageway side of the lower marginal strip to the subsoil drain, special precast concrete drainage blocks will permit the water from the surface of the sub-base and base to enter the drains. These will provide drainage during construction, and it is hoped will pick up any water percolating through the surface of the high stone content asphalt and so prevent wet patches on the running surface.

The carriageway surfacing basecourse will be 2½in. thick of 65 per cent. stone content gravel asphalt having a refined bitumen binder.

The running surface is 1½in. thick of 70 per cent. stone content crushed igneous rock rolled asphalt having a binder of 50/50 mixture refined bitumen and lake asphalt. Both specifications are to B.S. 594. The hard shoulders will be surfaced with 2in. of dense tar surfacing or 35 per cent. stone content rolled gravel asphalt. This will be surface dressed and covered with ¼in. chippings of light coloured slag to provide a contrast with the asphalt carriageways.

The motorway fencing conforms to B.S. 1722, part 7, and is nailed softwood impregnated with creosote.

At this point it is opportune to point out the variations between the cross-section being used at Stevenage and that

used on the flexible sections of the St. Albans By-pass.

(1) The sub-base is lean mix concrete.
(2) The hard shoulder has been widened to 10ft.
(3) The depth of hard shoulder construction is nearly as great as the main carriageway.
(4) The subsoil drain has been moved away from the back edge of the hard shoulder.
(5) The subsoil drain has been covered to prevent the ingress of silt and to make it better able to stand up to occasional superimposed loads from vehicle wheels.
(6) The water is collected at catchpits which can be cleaned by a mechanical gulley emptier standing on the hard shoulder.
(7) The reinforced concrete marginal haunch has been replaced by precast channel blocks. These are:
  (a) Easier to lay.
  (b) Less likely to suffer frost damage.
  (c) Can be raised when resurfacing the carriageway.
(8) The central reservation has been more deeply dished and better drained to prevent water running on to the carriageway.
(9) The carriageway crossfall has been increased to 1 in 40 to increase the speed of surface water run-off from the running surface.

Bridges

All the bridges and culverts have been designed by the county council staff. They number 22 in all; six overbridges, six underbridges, six subways of various widths, three culverts and one railway bridge.

The six overbridges are of the four-span reinforced concrete type. The underbridges vary in type, the most interesting being the two identical bridges required for the two level roundabout at Corey's Mill. These bridges are two hinged square portals in reinforced concrete slab construction. The clear span is 73ft. and the construction depths at centre and knee are 2ft. and 5ft. respectively.

The railway bridge is required for the crossing of the Eastern Region main line ex-Kings Cross. There are four existing lines and provision is made for two future lines. Slewing of tracks to allow intermediate piers would have been expensive, and it was decided to cross the existing tracks with one span. The angle of skew is 36 degrees and the bridge has three spans, 22ft., 74ft., 22ft. The intermediate trestles are of precast concrete and the abutments brick faced mass concrete. The centre span is constructed of 36in. universal beams, 260lb. per foot, plated with 12in. by 1in. plate to bottom flange at 4ft. 9in. centres acting compositely with the concrete deck. The bottom flanges will be covered with concrete before erection. Concrete jack arches will then be placed with permanent precast concrete shutters for the steel diaphragms. The remainder of the concrete casing and the deck will then be concreted in situ. The cost of this construction is expected to be about £9 per sq. ft. of clear soffit.

Contract and Execution

The contract is a fixed-price contract based on the Institution of Civil Engineers Conditions of Contract and The Ministry of Transport Specification for Road and Bridge Works.

The change in standards between 1952 and 1958 resulted in a great deal of redesign work. The southern terminal roundabout was moved southwards, the northern terminal roundabout moved northwards, and a number of bridges and subways were re-designed. One hundred and fifty plots of land make up the 188 acres required for the new road, and side road diversions. Approximately £110,000 is being spent on alterations to statutory undertakers' mains and services.

A fully equipped laboratory is in operation on site to control the quality of materials and workmanship.

The contractors carrying out the work are Martin Cowley, Ltd., and the total cost will be approximately £1,750,000. Work was inaugurated by the Minister of Transport on May 30, 1960, and the contract period is 19 months.

DETERMINING THE BEARING CAPACITY OF PILED FOUNDATIONS

THE knowledge available to an engineer who would build foundations on piles, particularly with regard to their load-bearing capacity, was examined by MR. THOMAS WHITAKER, M.Sc., M.I.C.E., A.M.I.Mun.E., in his Paper "A Survey of the Methods Used for Determining the Bearing Capacity of Piled Foundations." He said piles had been used for thousands of years, yet the design of piled foundations was still in a number of cases, a semi-empirical procedure, and commonly amounted to little more than applying some rule - of - thumb based on experience.

The conclusions reached by the author after making this examination were that it has been shown that if the bearing capacity of a pile is calculated from a driving formula the best that can be expected is that the result will be between about half and twice the value determined by loading test in about 95 per cent. of cases. No guidance can be given as to the accuracy of any individual result, or even whether it will fall within that range. If a static formula for piles in sand or gravel is used the result is likely to be in error, because of the discrepancies between the assumptions made in deriving the formula, and the actual behaviour, and because of the difficulty in determining the soil properties.

In sand the use of a penetrometer test would enable a prediction of bearing capacity to be made, which should be between about $\frac{1}{2}$ and $1\frac{1}{2}$ times the correct value, although occasional values may lie outside this range. For piles driven into soft clay, the bearing capacity can be calculated from the strength of the clay to an accuracy of ± 30 per cent. or thereabouts provided the clay is insensitive, but for harder clays empirical data from a knowledge of the particular clay is needed. For concrete piles cast in unlined boreholes in clay, only a lower limiting value of bearing capacity can be calculated from the softened soil strength, the possible upper limit needs the aid of empirical data.

Loading Test

If an accurate value of the bearing capacity of a pile is required a loading test should be made. An appropriate way of making the test seems to be to cause the pile to penetrate at a constant slow rate from its position as installed, the force needed to maintain the rate being continuously measured. If the engineer wishes to know the settlement of a pile under load it must be determined by experiment in a loading test, since there is no satisfactory method whereby its settlement can be calculated from known soil data.

Pile loading tests are expensive to make, but well planned tests should result in a lower factor of safety than would otherwise be needed if the bearing capacity were obtained by any other method. The total cost of the work may thus be smaller.

Settlement

When it comes to calculating the bearing capacity and settlement of a structure, which in all probability is supported by piles in groups, whatever information may be available about single piles must be converted to apply to groups by the use of coefficients which may be known or only guessed at. If the piles are in sand or gravel the effect of ignoring group action may give a conservative design. If the soil is clay, the effect of group action may be a major feature in design, and the error arising from ignoring it will be on the unsafe side.

Research Needed

There is no ground for complacent acceptance of the current methods of determining the bearing capacity of piled foundations. The use of rule-of-thumb based on accumulated experience is inevitable when there is no adequate design theory, but it demands a conservative choice of a factor of safety. There are many aspects of piling, particularly in regard to group behaviour, about which very little is known, and a great deal of research both in the laboratory and in the field is needed before economies in design can be achieved.

The work described in this Paper forms part of the research programme of the Building Research Board.

PROFESSION OF TRAFFIC ENGINEER

SPEAKING of the profession of traffic engineer in his Paper "The Development of Traffic Engineering in a County" MR. E. OGDEN, B.Sc., A.M.I.C.E., M.I.H.E., said although he felt that traffic engineering had arrived it was not so clear *how* the traffic engineer arrived. In the case of Lancashire all the traffic engineers had initially been associated with some other branch of the profession. The transfer to traffic engineering had been facilitated because the potential of the county made it possible to offer opportunities of a satisfactory career in this field.

There were generally, however, two features which must be reconciled. There could be little doubt firstly that the profession was primarily that for a specialist. Secondly that traffic engineering decisions were matters of the greatest importance in the work of a highway department particularly in an expanding economy and it was essential therefore that decisions based on traffic engineering should be presented to the directing head with full force and lucidity. This could not occur from a junior level.

Must Be Specialist

In other words the traffic engineer must be a specialist and hold a senior post. Any tendency to create traffic engineering mechanics as opposed to traffic engineers for principal responsibility should be guarded against.

Specialisation normally implied a block in a career and therefore traffic engineering positions must be sufficiently attractive to overcome this disadvantage. It must be appreciated that at present the prospects for a potential traffic engineer were obscure and this must affect recruitment in this field.

In these circumstances it was likely that staffs would continue to be formed by transfers from other branches of the profession. The implication of this was that training would normally be confined to experience within the department supplemented by the study of published material and short courses such as were organised by the Road Research Laboratory.

Mr. Ogden's Paper referred to developments in Lancashire where traffic engineering has been fully recognised for over 10 years.

COPING WITH THE CAR

TWO Papers were presented on this subject—"Coping with the Car—Inside the Housing Estate" by MR. J. L. WOMERSLEY, F.R.I.B.A., city architect of Sheffield, and MR. IVOR SMITH, A.R.I.B.A., and "Coping with the Car—Beyond the Housing Estate", by MR. LEONARD C. HOWITT, F.R.I.B.A., city architect of Manchester.

The authors of the first Paper said architect-planners were perhaps not alone in wondering whether any other country in the world, which had written and talked about the motor car and its impact on society to the extent which we in Britain had done, could have made so

paltry a physical and financial effort to deal with the problem.

We had repeatedly and consistently underestimated the volume of traffic which would use our roads. For nearly half a century we had bemoaned the chaotic effect of traffic upon famous towns and cities such as Oxford, Stamford and York but we had remained unwilling to endure any sacrifice to bring about a radical improvement. We had neglected to learn anything from the experience of America and we had resisted the temptation to contrast the roads of Germany, Italy and other continental countries with those of our own. In fact with traditional British laisser-faire we had drifted on without a policy, and not until our cities were nearly strangled to a standstill did we allow ourselves to be galvanised into action.

Before the war one wondered why the excellent examples of the early part of the century, such as Port Sunlight and Bourneville, had so little influence on new housing development. Now, in 1960, one wondered still. Radburn, New Jersey, was built in 1929, and in the same year Le Corbusier's 'The City of Tomorrow', written in 1924, was first published in this country. Yet 30 years after this pioneer work it was still questionable whether the majority of housing developments proceeding today made any attempt to cope with our ever increasing vehicular mobility or were based on any real assessment of traffic and pedestrian requirements. All too often those responsible were content to adapt the conventional corridor street (should it not now be labelled 'accident street') type of layout by pushing a few extra garages in here and there or by allowing householders to build, individually, their sheds of various shapes and substances on the odd bits of ground which were left over in a lazy land-wasteful design. This sad and depressing picture was being perpetuated daily almost everywhere between Land's End and John o' Groats.

Awakening of Awareness

Congestion had now reached the point when we could no longer pretend that everything was satisfactory. The sheer number of cars was catching up on us and forcing us to look again at the problem. Over the last two or three years there had been distinct signs that we were beginning to take the problem of the car seriously.

M.1 had proved the claims, vigorously expressed by technicians over several decades, that given the opportunity we British could build roads as well and as fast as anybody else. And here and there, in Coventry and in several of the New Towns, the principles of vehicular and pedestrian segregation were being proved to work with satisfaction to the inhabitants at large.

We now actually possessed some parking meters and had begun to talk about multi-storey parking on the basis that it could be made to pay, as it did abroad, rather than be subsidised by the rates. In other words the country had begun to throw off its lethargic attitude to the biggest of all recent influences on our lives and in this more promising climate it behoved the architect, engineer and town planner to press forward anew with bold, imaginative and practical schemes for coping with the car.

Operating on Hunches

On the basic overall social problem of our towns we must admit that our knowledge was sketchy and unscientific. We operated on a series of hunches, and it was necessary that we checked them continually. We could already see that some of the neighbourhood planning of the 1940's had not taken the motor car into full account. Our relationships were now more diverse. Our sphere of business or professional friends might be on one distant scale, whereas our children might have friends on quite another, and our family connections might be scattered over a wide area. But the need for the individual to feel a sense of belonging within the community remained constant. We must therefore watch with care, and our sociological friends should study with diligence, and not be afraid to hazard predictions, in order to help us comprehend the ever increasing implications of the motor car on our environment.

Car Design

We needed to try to anticipate changes in motor car design and seek the guidance of the industry in this respect. Would cars be designed to last longer or deteriorate quicker? For this would affect the price and therefore the number of cars. It would also affect the design of garages, and could make car ports or permanent open parking either acceptable or not. In the days to come, when we had filled in all the motorway numbers between M.1 and M.45, when our town traffic was freely running and parking easily possible, would the trend in this country be towards the baby car or the big limousine? The answer to this question would have a considerable influence on design, especially in multi-storey or communal garaging where every few inches in car length and turning circle had a great effect on overall dimensions.

And should the day come when our country was geared to a creative rather than a destructive economy would even one car per family be sufficient?

These were questions to which we could at the moment only hazard guesses and we must constantly review the situation. A comprehensive approach to housing and town development was essential. The old concept, long since invalidated, whereby one agency was responsible for laying out roads and another for designing buildings to front them must now be finally abandoned. This called for a joint approach within local government between architect, engineer, estates surveyor and town clerk, and within private development between architect, developer and local authority.

Jeopardising our Cities

Mr. Howitt, author of the second Paper, said the study of the problems of coping with the car beyond the housing estate had pointed to a solution by providing adequate off-street parking facilities as the major element in a comprehensive plan which must be designed to meet the requirements as ascertained by detailed investigation of the conditions existing and forecast.

It was appreciated that extensive comprehensive redevelopment in central areas could very greatly alleviate conditions by providing for segregation of traffic and pedestrians, traffic at present street level and pedestrians above. The time was bound to come when building owners would be required to provide within their own curtilage for all short-time parkers visiting their premises and either themselves or in combination with neighbours to provide car parking for all employed therein. The public highways must eventually cease to be regarded as legitimate long-time parking places and be released for their proper purpose. Coercion might be needed to divert cars from the kerbside into off-street parking, but it must be exercised in the general interest. Whilst aesthetic considerations must await a more opportune moment we could not remain content to see the appearance of our cities jeopardised by the intrusion of legions of parked motor cars into every prospect. That was another problem to be solved in this complex task of coping with the car.

DAMAGE TO AMENITIES BY ENGINEERING SERVICES

THERE was an immediate need for some "tidying up" in every town or village, but without question the promotion of aesthetics and the prevention of damage to amenity was to be preferred to subsequent attempts to put right the harm which could be done by indifference, said Mr. F. W. Dawkes, B.Sc., M.I.Mun.E., A.M.I.C.E., in his Paper "Aesthetics and the Municipal Engineer."

There was also a need for more positive action at a national level to curb the damage which continued to spread through the activities of certain sections of the advertising industry and the expansion of the overhead transmission by the electrical and telephone services in particular.

Dealing with the public utility undertakings Mr. Dawkes said:

The relationship between the municipal engineer and those engaged in the public utility undertakings, namely, electricity, water, gas and Post Office telephones is of importance.

So far the gas and water industries are concerned aesthetic considerations are those mainly associated with production. The water industry has, over the years, reason to be satisfied with the general standard of its permanent over-ground works, and there are many excellent examples of reservoirs, over-ground storage tanks, pumping stations and water towers which stand as a lasting credit to those responsible. Apart from the temporary war-time steel water towers, of which there are still a few in existence, there are relatively few which give rise to offence.

The gas industry has its own problems which justifiably carry with it the stigma associated with "the Gas Works". The newest method of production of gas from oil has added the tall chimney which is incapable of sympathetic treatment in an urban environment. While gas production remains with us the limitations imposed on the plant designer must be accepted. There has, however, been a welcome reduction in the number of smaller gasworks in country districts following the concentration of production at larger works and the laying of trunk gas mains.

In both the water and gas industries distribution, whether on a regional basis or locally, is, with rare exceptions, below ground.

Overhead Lines

The electricity industry has, however, a different approach and in few places in the country can one fail to see some part of the network of overhead transmission lines. The effect on the town and countryside of these lines with their supporting pylons is all too familiar, particularly in the vicinity of the major generating stations.

Sir William Holford in a Paper presented before the Royal Society of Arts in February, 1960, said: "To the average man they (pylons and transmission lines) are the tentacles of industrialisation creeping out into the countryside which he would prefer to keep free from industrialisation".

The individual pylon faithfully expresses its function and is not without grace and some measure of beauty. Indeed, when a transmission line is sited in undulating and wooded country the scale of man's work may well blend with the countryside as do the major engineering works of a hydro-electric scheme. There can, however, be no justification for the reproduction of this form of transmission in urban areas. Can there be anything more incongruous than the steel pylon with its suspended insulators and grotesque conductors bestriding the modern housing estate or the perimeter of many of our towns today? It cannot be accepted that an undertaking that does not hesitate to lay a cable beneath the English Channel has neither the technical resources nor the capital to bury these distribution lines below the streets of our towns as the water and gas undertakings have done, and as the drainage authority with its sewers and culverts regard as part of the cost of modern civilisation.

If there is no excuse for high voltage overhead distribution then, surely, there can be none for overhead distribution to the consumer unless perhaps to the more

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L.C.C. APPROVE £647,600 BERMONDSEY HOUSING SCHEME

THE L.C.C. housing committee have approved a £647,600 second-stage scheme for the development of a site at Rotherhithe New Road, Bermondsey. Next to two 16-storey blocks now nearing completion are to be built a further 212 dwellings. These will comprise another 16-storey point block, three four-storey maisonnette blocks and a two-storey block of old people's flats.

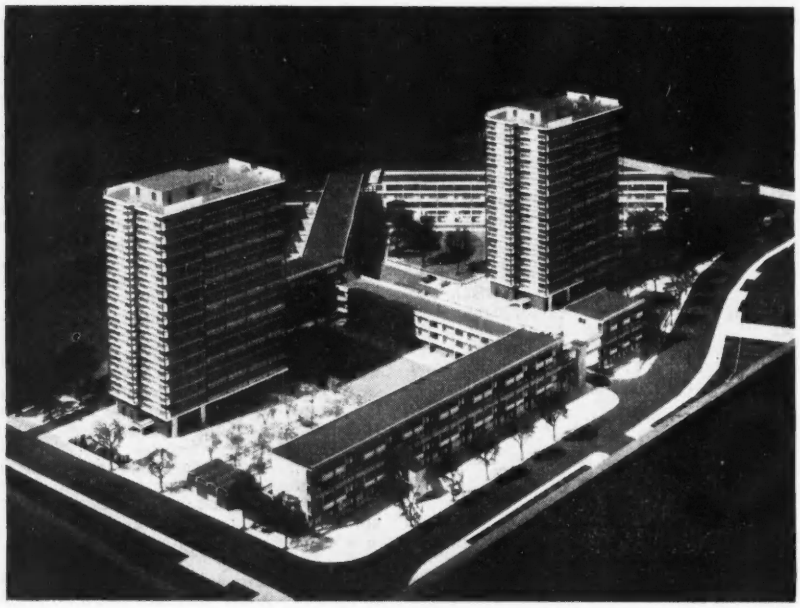
The density will be 200 persons to the acre for the whole scheme, and besides dwellings the second stage will include a doctor's surgery, 61 garages, and tenants' stores. Forty-two of the garages will be constructed below the two-storey block of flats and an adjoining sitting-out terrace or deck, which will be specially sound-insulated. The floors of these garages will be about 4ft. below ground level, approached by ramps. There will also be parking spaces for 22 cars.

In the high block will be two high-speed lifts and all the living accommodation will have electric under-floor heating.

Because of the very high density of this scheme, particular thought has been given to the layout of the open spaces between the buildings. Advantage will be taken of various changes in level to create interest in the landscaping with sunken and raised areas of grass, paving and massed tree planting including some semi-mature trees. It is notable that in a scheme of this density, space has been found for private gardens for the eighteen lower maisonettes in one block. In addition there will be two children's playgrounds and some covered play-space.

The occupants of the upper floors of the tall blocks in the estate will be able to enjoy extensive views of the river, docks and of the hills of Kent. A fine view of Greenwich Palace will be obtainable as well as Southwark Park nearby—which will also be visible from some of the lower blocks.

The scheme has been designed by the Architect to the L.C.C., Hubert Bennett, F.R.I.B.A. Tenders for the work have not yet been invited.



A model of the completed scheme

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remote farm. There are, nevertheless, throughout the country numerous villages and, indeed towns whose beauty is marred by inelegant distribution poles and festoons of wires which should without question be buried below ground. Example of this form of gross disfigurement can be found even amongst the Cotswold villages.

If all local authorities, supported by public opinion, raised their voices in protest, the electricity undertaking would find that underground distribution in the smaller community was no longer a problem and the additional cost not such an overriding factor.

Telephone Lines

The Post Office presents one further case of the recent exercise of "economy" and here again, due to inadequate forward planning insufficient provision is being made to meet the consumer demand on new housing estates with the result that last minute consents are sought so as to provide telephone facilities by overhead distribution. Even where pre-planning is ensured with the laying of underground ducts or cables during initial road construction the ponderous distribution pole raises its ugly head. It is time for an end to be brought to the spread of all forms of overhead distribution in town and village.

The countryside itself, where the overhead telephone lines are in some areas being replaced by overhead cables, adds one more of man's indiscretions to the rural scene and again only pressure of public and official opinion will serve to rectify these offences.

Before leaving this particular aspect, a word should be said on the more recent although slow, development of wired television, particularly in areas of poor reception. The growth of complex aerial arrays on row upon row of chimney stacks to ensure individual B.B.C. and Commercial Television and VHF reception, is all too familiar. The wired system, is in many instances, to be preferred on aesthetic grounds but the charges made to consumers must be sufficiently low to attract a high percentage of television viewers to use this service. Those who have had experience of the wired system will appreciate the benefits accruing not only to the viewer but the equally important reduction in the number of aerial arrays. It is customary when local authorities grant licences for this system of distribution, to insist that wires are taken from eaves to eaves of adjoining buildings and street crossings are eleminated or kept to a minimum. If such an installation, with all its complexities and where transmission lines are almost unseen, can be accomplished by private negotiation then the Post Office telephone service with its wealth of experience could do no less.

The author believes that little purpose is served by insisting on a high standard of individual design for houses and other buildings unless active steps are taken to preserve the environment of the buildings.

FLATLETS FOR OLD PEOPLE

Minister's Call to Local Authorities

Mr. Henry Brooke, Minister of Housing and Local Government, recently asked local authorities whether they would look into the scope for building in their districts flatlets for the elderly.

Mr. Brooke, who was opening a block of old people's flatlets at Lawford, Manningtree, Essex, said that three and a half million new houses and flats had been built in Britain since the war—a splendid achievement. But not nearly enough building had yet been done for old people.

"There is no doubt," he said, "that every housing authority should make sure that it has enough flatlets or bungalows for the older people; otherwise it may find them occupying a council house which is really too big for them; indeed they may be keeping a family with children out of it.

"Old people want enough space, but too much is a nuisance and a burden to them."

Mr. Brooke said that the flatlets he was opening fulfilled a number of suggestions contained in a Ministry booklet, Flatlets for Old People, issued in 1958. A new booklet, More Flatlets for Old People, had just been produced as a result of experience gained in the past two years. The Minister said he wanted all local authorities and all voluntary bodies concerned with the happiness of old people to read and think over the suggestions in those two booklets.

MODERNISING NON-SLUM HOUSES 12-YEAR JOB

According to Sir Keith Joseph, Parliamentary Secretary to the Ministry of Housing and Local Government, it will take about 12 years to modernise Britain's total of non-slum houses.

Speaking in London recently he said: "We have 15 million houses in the country of which three million lack modern amenities. Now housing improvements are running at a rate of nearly 400 a day, and the Minister has said he will not be content until this is up to 700 a day."

At present 135,000 houses a year were being modernised, but the aim was to get it up to 250,000 a year.

On building outside the big cities Sir Keith said that if private enterprise was coming to the end of the development of the broad acres, perhaps the time would come when many of the building societies and private enterprise would turn back towards the centres of the big cities, where in the "twilight areas" of Victorian terraces the houses could be replaced by modern housing schemes. But the redevelopment of the twilight areas could be done only if people paid an economic rent.

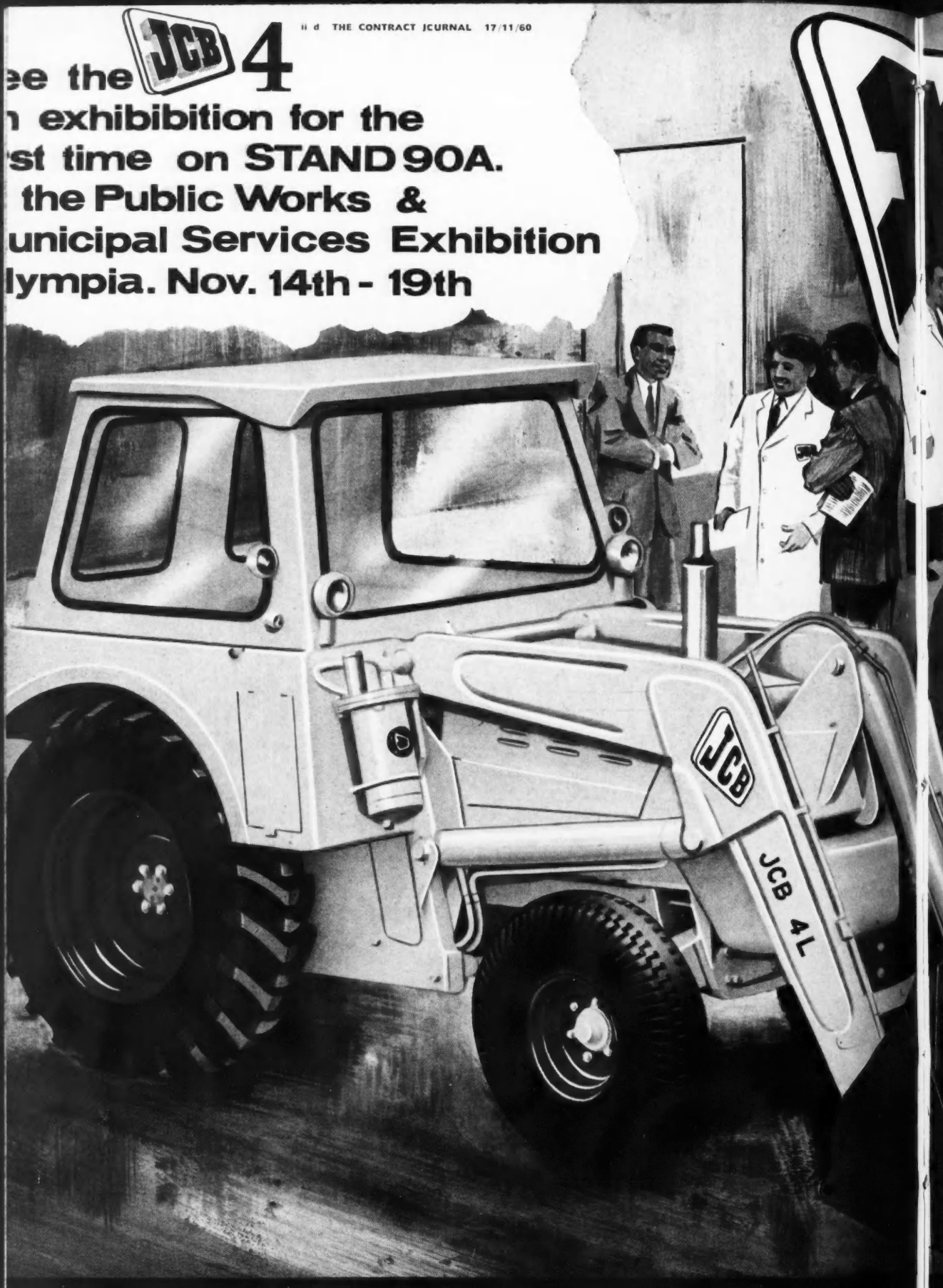
"The solution of the shortage is to allow private enterprise to provide the goods needed at a reasonable reward, and that is why the solution of the housing problem depends upon the acceptance of an economic rent."



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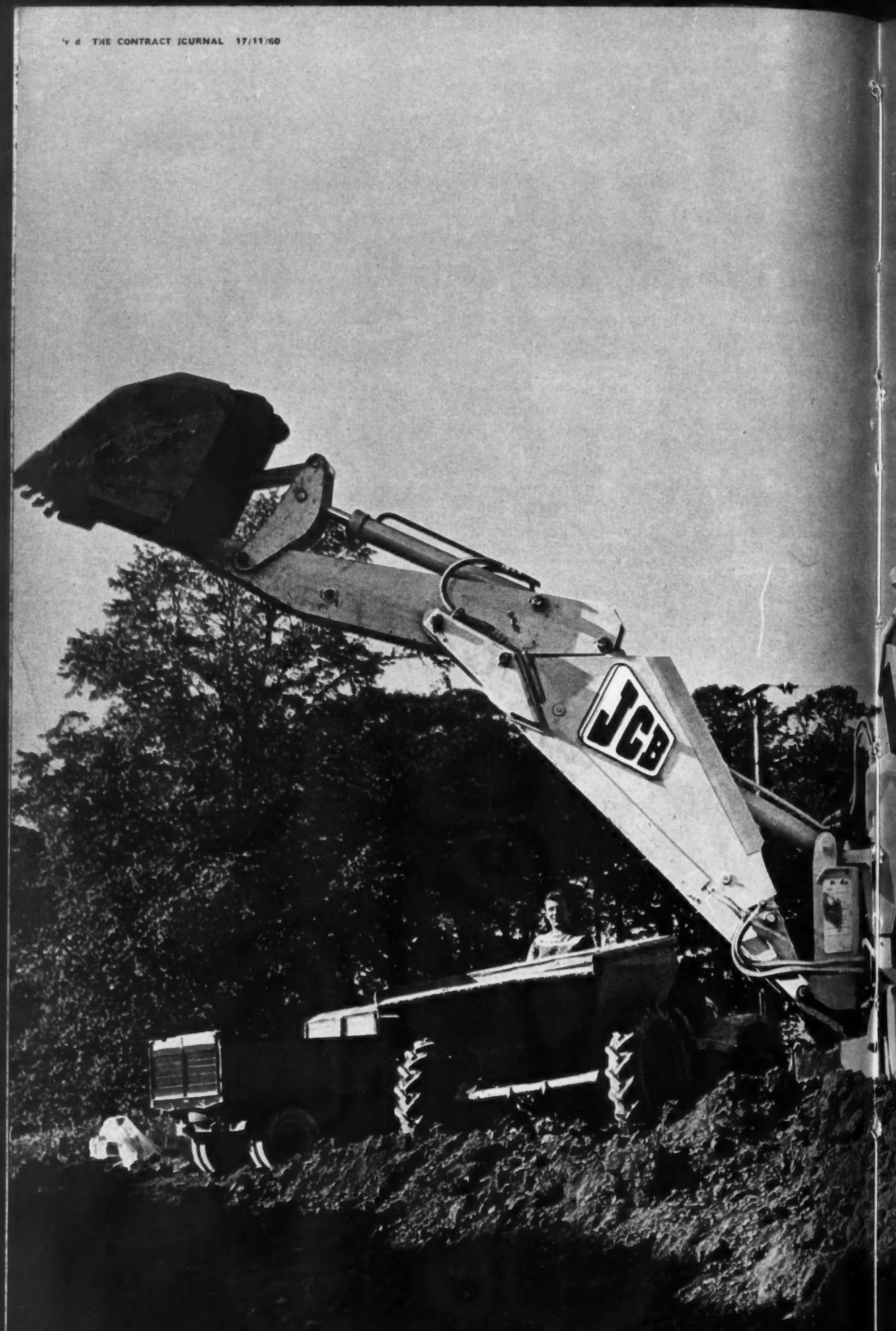


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STAFFORDSHIRE ROAD IMPROVEMENTS

Land Acquisition and Right of Entry Difficulties

CONSIDERABLE difficulties continue to arise in connection with the acquisition of land and the obtaining of right of entry for major improvement works, states Mr. J. JEPSON, O.B.E., A.M.I.C.E., county surveyor of Staffordshire, in his annual report for the year 1959-60. Schemes have been prepared up to contract stage, but the actual letting of the contract and the commencement of the work has been delayed in some cases for long periods due to the land not being available.

The total mileage of roads for which the county council is responsible is some 2,580 miles of which some 2,315 miles are directly maintained and 264 claimed by or delegated to local authorities. In the course of his report Mr. Jepson states:—

Maintenance Works

The increased grant from the Ministry of Transport allowed for an appreciable improvement in the mileage of resurfacing work done during the year. The mileage of roads resurfaced was 73.94 as against 59.05 miles in the previous year, but this improved figure still falls far short of the amount necessary to satisfactorily deal with the 2,315 miles of directly maintained roads. The policy of providing sett upstands, strengthening of haunches, in conjunction with limited realignment and resurfacing, has proved most economical and effective, but there still remains a large mileage, particularly in the lower classification groups, which require this treatment. In addition, many of the roads need major re-drainage works to replace the inadequate and dangerous ditches, particularly those close to the carriageway. During the year open fences have been provided at dangerous corners to improve visibility and a number of the major traffic routes have been comprehensively resignposted with modern reflecting type signs; a policy which it is hoped to continue during the coming year.

Resurfacing

The tonnage of material laid was 78,121—an increase of 11,282 tons over the previous year. The average cost per square yard of resurfacing work for ½in. carpets was 2/1d. per square yard—approximately the same as the previous year, but the cost of the ¾in. and 1in. carpets showed a substantial saving, equivalent to 1½d. and 3½d. per square yard respectively. The reduction in cost no doubt was due to the increased tonnage of material laid and the excellent weather conditions.

Surface Dressing

It was possible to increase the area laid by 171,215 square yards, the final area treated being 1,902,995 square yards as against 1,731,780 square yards in 1958-59. The cost of the work was 8.30 pence per square yard—approximately the same as the previous year and still appreciably lower than the cost in 1947-48.

Snow Clearing and Gritting

The expenditure on this essential work was £80,000, of which £33,000 was for frost gritting. The yearly fluctuations in the expenditure on this work emphasises the need to deal with this item separately from ordinary maintenance to enable efficient planning of the expenditure on construction work throughout the year.

Major Improvement Schemes

County Roads

Schemes estimated to cost over £700,000 were under construction in 1959-60, the major improvement works being:—

A.51 Stone By-pass; A.51 Widening between Burston and Sandon; A.51 Lichfield (Western) By-pass; A.51 Bury Bank Improvement; A.51 Widening and realignment of Brereton Hill, Rugeley; A.460 Park Lane—South of Laney Green Diversion; A.520 Weston Coyney towards Cellarhead (Circular 697/4); and II New Road in Wednesfield.

The Ministry of Transport approved 57 new schemes totalling £248,125 during 1959-60 and, in addition, schemes to a total of £350,000 were being prepared for commitment during 1960-61.

Trunk Roads

The total estimated cost of the schemes under construction in 1959-60 was £922,000, excluding the Creswell Viaduct, which is being undertaken as part of the Birmingham—Preston Motorway. The expenditure during the year was £474,000, which is well over double the amount spent the previous year and includes the two major sections of dual carriageway on the Stafford—Newcastle Trunk Road A.34. Schemes to an estimated cost of £1,100,000 are being prepared for commitment in 1960-61.

Bridgeworks

The following new bridges were completed, or were in course of construction during the year:—

T.R. A.34 Filleybrooks River Bridge; T.R. A.34 Darlaston River Bridge; T.R. A.38 Bell Bridge; and T.R. A.462 Bughole Canal Bridge.

In addition, 741 bridges have been inspected and the necessary maintenance repairs carried out. Discussions have taken place with the British Transport Commission with regard to the raising and reconstruction of the over-bridges in connection with electrification. In total approximately 50 bridges carrying county roads over the railway will have to be dealt with, and it is essential that road conditions are not adversely affected in any way by altering the levels of the various structures.

Motorway

Work was commenced on the Creswell Viaduct, which is the first section of the Birmingham—Preston Motorway. The project forms part of the Stafford By-pass and carries the new road over areas of deep peat, the River Sow and the main Stafford—Crewe railway line. The scheme provides for three major bridge structures, between which is a reinforced concrete raft supported on piles on which the ultimate embankment will be formed. Owing to the difficult ground conditions, approximately 7,000 piles—some of considerable length—will have to be driven to support the bridge foundations and a concrete raft. The contract period for the work is 30 months, and the estimated cost £1,200,000.

The contract* for the rest of the Stafford By-pass was advertised on February 27, 1960, with a contract period of 23 months, so that the two projects should be completed at approximately the same time.

Contract documents* have also been prepared for the full length of the Motorway from Stafford to the Cheshire Boundary—a distance of approximately 25 miles—so that, should the Minister of Transport wish, the full length being prepared by the County Council can be advertised without delay.

Plant and Transport

The present system of undertaking minor repairs and maintenance at the area depots by the small repair units, and so enabling the central repair depot at Gailey to concentrate on major types of work, is proving very satisfactory. The expenditure on repairs and maintenance during the year to outside firms was only £800 and was primarily for such specialised items as roller repairs, specialist body repairs and painting, and auto-electric work.

The time lost in the movement of vehicles and standing for repairs has been reduced to a minimum, and, in this connection, the holding of a comprehensive stock of spares has proved invaluable.

The following items of equipment were delivered in 1959-60:—

(7) motor trucks (diesel), (7) gritting machine attachments, (7) snowploughs for 5-ton diesel trucks, (3) motor vans, (12) light lorries, (1) mechanical sweeper, (1) gulley emptier, (2) concrete dumpers, (4) plate vibrators, (6) footpath rollers, (1) Barber-Greene resurfacing machine, (1) rotary snowplough, (1) David Brown mowing machine, (1) quarry air compresor (small) and (1) quarry displacement pump (small).

Staff

The average number of workmen employed during the year was 924—a decrease of 11 on the previous year as against an increase of 24 in 1958-59. The difficulty in recruiting any substantial number of suitable men meant that it was still necessary to employ contractors under annual tender for footpath, kerbing and similar works, but the number of such gangs was kept to a minimum. There is still great difficulty in recruiting trained qualified civil engineers, clerks of works and highway superintendents—so much so that the technical staff had to work a considerable amount of overtime during the year to deal with the large programme of constructional works undertaken during the year.

Every effort is made by the training of articled pupils, engineering learners and graduates under training, but, although these officers are doing an excellent job within their capacity, there still remains a shortage of fully qualified engineers who can prepare and control works with the minimum amount of supervision. During the year 7 technical staff have left the Department—either on retirement or to take up higher paid appointments and although these have been replaced, the movement of technical staff, particularly when they are on the preparation of important schemes, does not help in technical supervision or the preparation of the various contracts.

General Observations

During the year a considerable volume of work has been carried out, particularly in connection with the major improvement of trunk and classified roads and the contract documents required for the Motorway. Improvement schemes under construction are estimated to cost £1,622,000, whilst, in addition, schemes to the order of £1,450,000 were being prepared. With regard to the minor improvement schemes (each costing less than £10,000) 177 of these were under construction during the year at a total estimated cost of £176,000. The work carried out in connection with the maintenance estimates totalled £1,461,000 exclusive of those improvement works which were done by direct labour at a total estimated cost of £272,000.

The control of the cost for work on the directly maintained roads has again been particularly satisfactory, the final grant claims showing an over-expenditure of £291, equivalent to 0.04% of the approved grant. During the past 8 years, the gross expenditure on all the directly maintained roads has been £8,000,000 and over this period there has been an over-expenditure of £10,000, equivalent to only 0.13%.

**Contracts for these works have now been placed* (The Contract Journal, *November 3, 1960*).—EDITOR.

THE NEW SAFETY CODE FOR THE CONSTRUCTION INDUSTRIES

By "Dragee"

SINCE 1948, building operations have been subject to an elaborate code of safety rules known as "The Building (Safety, Health and Welfare) Regulations." The application of these regulations is clearly stated in Building Regulation 2 which refers to "the construction, structural alteration or maintenance of a building . . . . the demolition of a building, and the preparation for, and laying the foundation of, an intended building . . . ." Unfortunately, whilst the term "building operation" can be defined with precision, there is no statutory definition of the actual word "building" and this presumably unavoidable omission has repeatedly led to a great deal of confusion and anomaly, particularly where building operations and works of engineering construction tend to overlap.

At present, legislation directly applicable to constructional engineering is provided by Section 108 of the Factories Act 1937 and the "Work in Compressed Air (Amendment) Regulations 1960". There has been in existence for several years a draft code of regulations for constructional work, but it has been apparent that even if this parallel set of regulations were to come into force, the situation would still be far from satisfactory. Accordingly, a move has been made to place building operations and works of engineering construction under one heading, and to this end new draft construction regulations are being published under Section 129 of the Factories Act 1937. The first two drafts of these special regulations have been issued already. These are: "The Construction (General Provision) Regulations" and "The Construction (Lifting Operations) Regulations".

The present drafts, with a few modifications, embody the whole of Part III (Raising and Lowering), Part IV (Excavations), Part V (Demolition), Part VII (Miscellaneous) and Part VIII (Prohibited Sale or Hire of Machinery) of the Building Regulations 1948, together with the Amendment Regulations of 1952 and 1958. It is expected that future drafts will embody Part II (Scaffolds and Means of Access) and Part VI (Health and Welfare). The two drafts also contain a number of new provisions which are particularly applicable to engineering construction. The General Provisions contain paragraphs dealing with work in shafts and tunnels (Part IV), work in cofferdams and caissons (Part V), transport (Part IX), contact with overhead power lines (Reg. 44—and very necessary on building work, too!), and particulars relating to helmets or crowns for pile driving.

Obligations

Amongst the more interesting innovations, in these Provisions, we find in Reg. 3 ("Obligations under Regulations") the following:

> "No person shall be held not to have complied with a requirement of any of these Regulations by reason of any matter proved to have been due to physical conditions over which he had no control and against the happening of which it was not reasonably practicable for him to make provision."

One can imagine the heart-searching which went in the production of this paragraph!

Safety Supervisors

Part II deals with the supervision of safe conduct work and the appointment of safety supervisors, which would thus be extended to take in all forms of constructional work. Important requirements concerning the provision of scaffolds and means of access (Part III) extends the present Building Regulation 5 with respect to a safe place of work, in addition to the provision of scaffolds and safe means of access.

Under the heading "Dangerous or Unhealthy Atmospheres", there are important paragraphs affecting the ventilation of excavations, etc. (Reg. 21) and exhaust gases from internal combustion engines (Reg. 22).

The precautions to be taken to avoid danger from sudden twist, spring or collapse during the cutting or releasing of steelwork or ironwork during demolition operations are now more stringent, with the omission of the phrase "as far as practicable" which qualifies the present Building Regulation 79 (5).

A minor variation of the present regulations appears in the last four lines of Reg. 43, dealing with the fencing of machinery. Anybody who has tried to unravel the meaning of Building Regulation 86 (1) will appreciate this helpful gesture of the architects of this draft. And just to show that they are human, they refer to Regulation 53 instead of Regulation 56 in the Explanatory Note.

Lifting Operations

The draft of The Construction (Lifting Operations) Regulations contains a number of refinements, some of the more notable being the addition of plate clamps to the interpretation of "lifting gear", and the omission of separate provisions concerning "hoists forming part of permanent equipment or building". The carriage of persons and the secureness of loads is the subject of Part VI, and this contains new provision for hoists carrying persons—including one surprising relaxation.

Whilst the present drafts do not entirely remove the old doubts and difficulties, there has been a considerable amount of tidying up generally. The mere fact of knowing rather more precisely where we stand may help to compensate those who dislike the widening of restrictive legislation. At the very least we have to recognise the benevolence of its purpose.

MINISTER APPROVES BIG SOUTHAMPTON HOUSING ESTATE

Mr. Henry Brooke, Minister of Housing and Local Government, has granted planning permission to Southampton Corporation to build a big new housing estate, with shops, schools and other social services, between the borough boundary and the village of Rownhams in Hampshire.

The Corporation originally applied for planning permission to develop 694 acres to house about 20,000 people. Mr. Brooke has excluded about 120 acres from the permission he has granted because of the agricultural value of the land.



Aerial view of the new Esso refinery and marine jetty at Milford Haven, recently officially opened by H.R.H. The Duke of Edinburgh. Constructed at a cost of approximately £18m., the refinery has been designed to process initially 4½ million tons of crude oil per annum. Articles describing the construction of the refinery and the jetty appeared in *The Contract Journal* on October 8 and November 17, 1959

RECONSTRUCTION OF ST. PANCRAS PUBLIC BATHS

First Two Stages of £180,000 Scheme Completed

THE recent inauguration of the re-opening of the swimming pools at Prince of Wales Road Public Baths, for St. Pancras Borough Council, marked the completion of the first two stages of a major scheme of modernisation within the old structure.

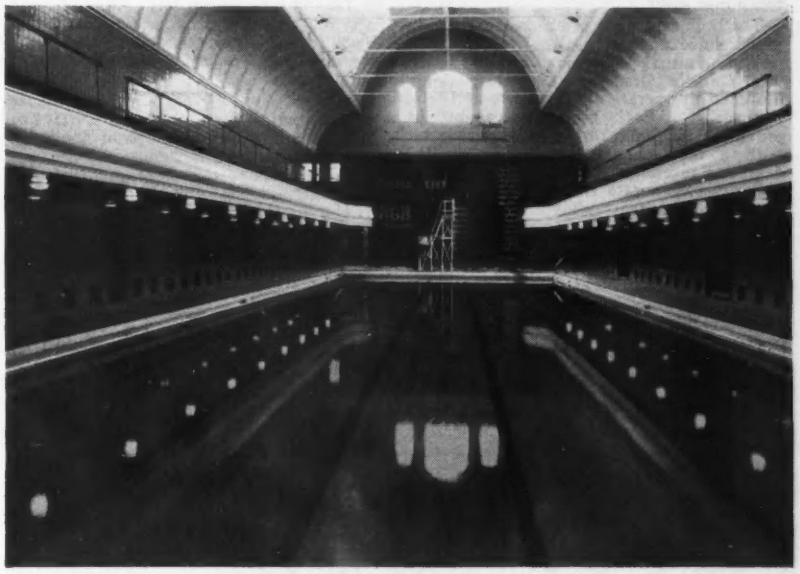
Originally erected in 1901, the baths were surveyed some six years ago, in view of the bomb damage and neglect suffered during the last war, and a comprehensive report was prepared on the future of the establishment.

Survey Result

The survey showed that, whilst the shell of the building was structurally stable and in sound condition, the swimming pools were badly cracked and leaking, the boiler installation was out of date and inefficient, and the steam, water and filtration mains were no longer capable of repair. As a result of the report it was decided that the building structure should remain but that the major part of the interior should be subjected to a major modernisation. This was to include the complete reconstruction of the two swimming pools, the construction of a completely new boiler house and installation of a modern boiler plant, renewal of all steam, water and filtration mains, the installation of modern heating and lighting systems and complete redecoration throughout in accordance with modern standards.

At a later date it was decided that the old wash-house should be scrapped entirely and be replaced by a modern laundry with automatic washing plant.

The scheme was planned to be carried out in three stages, as follows: Stage I—Demolition of the two old swimming pools and their reconstruction in reinforced concrete; demolition of 24 Grafton Road and the construction of a new boiler house on the site with the installation of two automatic oil-fired boilers and ancillary equipment. Stage II—The complete redecoration of the two swims; construction of a new main entrance hall in Grafton Road; installation of new dressing accommodation in the old Grafton public hall; construction of a pre-cleansing area with lavatory accommodation; and the installation of modern space heating and lighting. Stage III—The installation of a new automatic public laundry and the conversion of the old boilers to oil fuel storage tanks in connection with the new boiler installation.



Willes Swim

Stages I and II have now been completed, and Stage III, which is in progress, is expected to be finished by the early part of 1961.

The new front entrance has been sited in Grafton Road to give convenient access to both the new dressing accommodation and to the existing men's and women's warm baths. Entrance doors are of armour plate glass in a mahogany frame with glass prism side lights and with a reinforced concrete canopy over the whole entrance. A long reception desk in the entrance hall is in mahogany and red meranti.

To the left of the entrance hall is the door to the dressing accommodation, which has been constructed in the old Grafton Hall. This is divided into two sections for men and women. There are 80 cubicles constructed in terrazzo, and, in addition, two changing rooms, also in terrazzo, for school children, one for boys in the men's section and one for girls in the women's section.

From the dressing accommodation swimmers pass through the pre-cleansing area. This contains footsprays, shower tunnels, lavatories and footbaths, everything being in duplicate for men and women. The footsprays automatically spray feet placed on a footrest, the bathers then passing through the shower tunnels which are provided with footbaths. Footbaths are also installed at the entrances to all lavatories, and at the exit from the pre-cleansing area there is a common passageway giving access to both swims.



Grafton Swim

The Willes Swim is 100ft. long and 36ft. wide. It is 3ft. 6in. deep at the shallow end, 6ft. deep at mid-length and 10ft. deep at the diving end. The capacity is approximately 144,000 gallons of water, weighing some 643 tons. It is heated by means of a heating battery in the surround, from which warm air passes along ducts and emerges through gratings at floor level around the pool.

The Grafton Swim is 100ft. long and 33ft. wide, and the depth varies from 2ft. 6in. to 6ft. The capacity is approximately 87,000 gallons of water weighing some 390 tons, the lesser width being due to the necessity of accommodating the new corridor to the slipper baths. Owing to the limitations of the existing structure, it was not possible to construct a 50-metre-long (165ft.) Olympic Standard pool.

Construction Details

Each pool is of monolithic reinforced concrete, tanked with asphalt and tiled internally, supported by transverse sleeper

walls bearing on spread footings on clay subsoil. This form of construction gives access underneath the pools for inspection and maintenance work. The structures were designed in accordance with the "British Standard Code of Practice for the Design and Construction of Reinforced Concrete Structures for the Storage of Liquids."

The contract included all the necessary pipework for circulating water from the pools to the existing filter plant. Breakpoint chlorination is used and the treated and warm water flows into the pools through diffusers or the distribution channels at the shallow ends.

Water leaves from the bottom outlets or from the scum collection channels at the deep ends. The side scum channels are set at an intermediate level to take splashings only.

The boiler house is of brick construction with reinforced concrete roof. It contains two horizontal Thermax boilers, each 9ft. 6in. in diameter and 13ft. long, designed to operate at a pressure of 100lb. per sq. in. Each boiler is capable of providing 12,000lb. of steam per hour, with a feed water temperature of 212 degrees Fahrenheit. This means that each boiler can evaporate 1,200 gallons of water per hour, the gross efficiency being 84.5 per cent.

Each boiler is oil-fired by a fully automatic air assisted turbo-jet burner, complete with electric and steam heated oil pre-heating units and oil pumping units for use with heavy crude fuel oil . The boiler equipment is provided with the latest type of boiler and oil burner instrumentation including a CO_2 recorder, a smoke density indicator and alarm, steam flow recorder and temperature recorders. In addition, alarm bells and indicators have also been fitted in the superintendent's office so that he is immediately aware if any emergency arises.

Decoration Finishes

Walls to the new Grafton Road entrance are of ceramic glazed tiles, the colours being plain yellow with two striped silk screen tiles, one in chestnut and one is dove grey. The floor is tiled in cerabati fully vitrified blue, white, black and blue speckled tiles. A false ceiling consists of Isora translucent panels in daylight blue p.v.c. stretched over frames. Supporting metal framework is hot dipped galvanised and is finished with Cliolite enamel.

Ceramic glazed wall tiles of jubilee blue have been used on the walls of the dressing accommodation in the old Grafton Hall, with silk screen tiles in both the mirrored recesses. Cubicles are of 1¼in. thick silver grey terrazzo, with blockwood doors veneered in dark African mahogany hung on falling butts, and the seats are of solid teak. Floor tiling consists of cerabati blue/white speckled and grey mosaic fully vitrified tiles, and black bevel-topped coved skirting. A false ceiling is similar to that already described.

In the Willes Swim ash grey ceramic glazed wall tiles are used beneath the balconies and jubilee blue above. The north wall is in jet black with silk screen tiles as a mural, and the side walls of the small recess in the south wall are in silk screen tiles of Johnsons Planet series. Blue glazed faience tiles and black racing lane tiles, 2ft. by 1ft., decorate the pool itself, the surround being faced with fully vitrified grey-white speckled Sinzig tiles.

All painting has been carried out in the Willes Swim with chlorinated rubber paint; white on the ceiling and the south wall; stone grey on the north wall above the black tile mural; reef red on the ceiling beneath the balconies; and minerva grey on the ironwork of the balcony seats.

The Grafton Swim is faced with ceramic glazed wall tiles, comprising vertical stripes of lotus blue and opal white on the south wall; pearl grey, French grey and opal white on the side walls; and jet black with silk screen circles as a mural on the north wall. Swim tiling and the surround are of similar nature to the Willes Swim, with the exception that the faience tiles are white.

A horizontal ceiling over the bath is in Difulite of a harebell blue colour. The vertical sides and horizontal ceiling underneath the slipper baths are in ¾in. thick Asbestolux panels, the supporting steelwork being finished with a calcium plumbate anti-corrosion treatment. Removable access panels are provided on both sides and at the south end. Three catwalks have been fixed above the Difulite eggcrate ceiling for maintenance of the lighting fittings.

Thermal insulation and anti-condensation has been provided by the use of a sprayed-on p.v.c. paint. The colours used are stone grey, fiesta blue, and for the ceiling underneath the slipper baths, marigold.

The boiler house has walls of white ceramic tiles and a floor of red and blue-black quarry tiles, and the underside of the flat concrete roof has been sprayed with Pyrok.

Between the new entrance and the administration offices, a corridor has been finished in Prodorglaze, a paint applied by spray and finished in a glaze allowing easy cleaning. A mottled blue resilient vinyl tile has been used for the corridor floor, with a black coved skirting.

Heating and Lighting

At the Grafton Road entrance heating is by two vertical downdraught fan/steam heaters each with capacities of 119,000 B.T.U.'s per hour, and a temperature range of 55-112 degrees Fahrenheit. Hot air discharges through grilles in the false ceiling.

Strip fluorescent lighting is provided at the entrance hall above the translucent ceiling, comprising six fittings each with two 80-watt tubes over the entrance and six single 40-watt tubes over the reception office. There are three prismatic glass bulkhead fittings underneath the outside canopy, each with a 100-watt tungsten filament lamp.

Heating of the dressing accommodation is by the same process as for the entrance, although eight heaters are used. The front louvers are adjustable to allow the hot air discharge to be directed where required.

Lighting here consists of three rows of fluorescent strip lighting above the translucent ceiling with 12 80-watt tubes in each row. Also 6 100-watt tungsten lamps in prismatic glass wall lights in the clothes storage area and a 40-watt fluorescent tube above the dressing mirrors.

Twelve downdraught fan/steam heaters heat the Grafton Swim, discharging through grilles placed in the low ceiling along the sides of the bath. The heaters are of the same capacity and temperature range as those already described.

Lighting is by 28 circular prismatic glass bulkhead lights, each with a 60-watt tungsten lamp in the low ceiling along the sides. There are also eight 80-watt fluorescent diffusers in the low ceiling at the south end; three rows of fluorescent strip lighting above the Difulite ceiling, with ten 80-watt tubes in each row; and eight 500-watt floodlights are let into the eggcrate ceiling.

A different type of heating system is used in the Willes Swim. This is by Plenum duct underneath the surrounds through grilles in the side walls. The source of heat is a fan/steam radiator of 1,700,000 B.T.U.'s per hour capacity and a temperature range of 55-108 degrees Fahrenheit.

Twenty-eight prismatic glass bulkhead lights, as in the Grafton Swim, are provided beneath the balconies. Sixteen 500-watt floodlights, and two 1,000-watt spotlights angled for the diving stage, have been fixed in the roof with maintenance access through the glass in the false ceiling.

Designers and Contractors

The cost of the whole scheme is estimated at about £180,000, and the two completed stages have cost about £150,000. Preparation of the designs, reinforced concrete calculations and details, and the bills of quantities, were undertaken in the borough engineer and surveyor's department under the direction of Mr. C. S. Bainbridge, M.I.C.E., F.R.I.C.S., M.I.Mun.E., borough engineer and surveyor

Holloway Bros. (London), Ltd., 157 Millbank, London, S.W.1, were the main contractors. Among the principal subcontractors were the following:

Boilers, Ruston and Hornsby, Ltd.; oil burning equipment, Associated British Combustion, Ltd.; electrical engineering, Higgins and Cattle, Ltd.; heating engineering, R. F. Towler (1931), Ltd.; swim water circulation pipework, United Filters and Engineering, Ltd.; false ceilings, Isora Ceilings Division of S.F.I.M. (Great Britain), Ltd., and Anderson Construction Co., Ltd.; wall and floor tiling, Cope and Co., Ltd.; changing cubicles, Alpha Mosaic and Terrazzo Co., Ltd.; painting in swims and changing accommodation, Lexton Decorations, Ltd.; wall treatment in corridor, Prodorite, Ltd.; flooring in corridor, E. B. Trumper and Sons and Edward Stuart (Rubbalux) Co.; ceiling in boiler house, Pyrok Contracts, Ltd.

L.M.B.A. MEDALS PRESENTATION

Silver and bronze medals of the London Master Builders Association were presented recently to prizewinners in the City and Guilds of London Institute examinations by the Chief Scout, Major Sir Charles Maclean, in the Carpenters Hall, London.

The successful medallists were as follows:

Carpentry and Joinery: (Silver) J. O. Rich, of John Laing and Son, Ltd.; (Bronze) J. C. Gaughran, of E. Pollard and Co., Ltd.

Woodcutting Machinists' Work: (Silver) A. F. Richins, of Holland & Hannen and Cubitts (Great Britain) Ltd.; (Bronze) A. R. Edwards, of Taylor Woodrow Group.

Brickwork: (Silver) S. E. Young, of Tersons, Ltd.; (Bronze) B. E. Gardner, of John Laing and Son, Ltd.

Plasterers' Work: (Bronze) M. S. Clare, of Tomei and Sons, Ltd.

Painters and Decorators' Work: (Bronze) B. H. Hare, of A. E. Symes, Ltd.

Plumbers' Work: (Silver) B. Piper, of R. W. Bowman, Ltd.; (Bronze) A. Byrne, of Stitson White and Co., Ltd.

Builders' Quantities: (Silver) J. Porter, of Holloway Brothers (London), Ltd.; (Bronze) R. H. Kennett, of Taylor Woodrow Group.

(Concluded from page 908)

long contractors would be paying more for the bricks they can't get. I have to report that one of the biggest manufacturers in the north, J. and A. Jackson of Manchester, have told builders that they will have to charge 10s. more for a 1,000 common bricks and 12s. 6d. more for facing bricks. Jacksons, let it be said, seem to be among the last of the manufacturers to increase their prices and Mr. J. L. Hulse, the company's secretary, informs me that the decision was taken very reluctantly, for the firm's policy is to keep prices as low as possible. Still, if brick prices continue to go up one can expect a greater demand for timber houses. Some powerful efforts are already being made to popularise this form of house construction.

And finally, Cambridge Town Waterworks Company have sent a note out to their customers advertising that bathroom fittings, etc., are obtainable at the company's showrooms and that staff are available for installing and fixing them. The builders' merchants and plumbers in the area are not very happy about it. Is this another form of direct labour?

ANOTHER NEW EASTERN REGION STATION

Railway Modernisation in Hertfordshire

A NEW station, very similar in design to the one recently opened at Harlow, Essex, has now been completed for the Eastern Region of British Railways at Broxbourne, Herts. It is the principal feature of a major modernisation scheme which has been carried out in the area to provide improved services on the newly electrified suburban line to Hertford.

This scheme has also included extensive track alterations, the construction of a new signal box and a technical services building, and the provision of an extensive goods and coal yard. In addition, the centre span of nearby Nazeing Road bridge had to be raised in order to give sufficient clearance for the high voltage overhead electrification wires.

Dominating the station, which is sited 100yd. north of the former 70-year-old building, are three 50ft. high towers, housing the parcels lifts. An impressive modern entrance, leading to a lofty glazed staircase hall, fronts on to a new approach road and forecourt. The forecourt has parking space for more than 80 cars, as well as a taxi rank and bus terminal point.

A single-storey block at forecourt level accommodates the booking hall, fully mechanised ticket office and the inquiry, left luggage and parcels offices. Under cover storage for 50 bicycles is also provided.

The bridge, linking the booking hall with the platforms, has two separate corridors—one for passengers and the other, served by lifts, for parcels traffic. The bridge also accommodates the station master's office, with a one-way vision glass screen, a newsagent's kiosk, toilet facilities and a public waiting room.

Awnings over the centres of the two island platforms consist of a grid of lightweight trussed steel beams, bearing on brick cross piers. The roof covering is of bituminous felt on wood wool slabs with timber soffits and fascias. Services for loudspeakers, lighting and drainage are concealed in the cavities of the awning and supporting walls. Beyond the covered part of the platforms are enclosed waiting shelters—three on the Up platform and two on the Down.

The main structure has been designed so that the whole of the overbridge is supported by the three lift towers and an intermediate fin. The lift shafts are of reinforced in-situ cast concrete faced in blue brindle brickwork used as permanent shuttering, from which are cantilevered parts of the overbridge floor. On these cantilevers are supported precast pre-stressed concrete beams and floor slabs which span over the railway running tracks and access road.

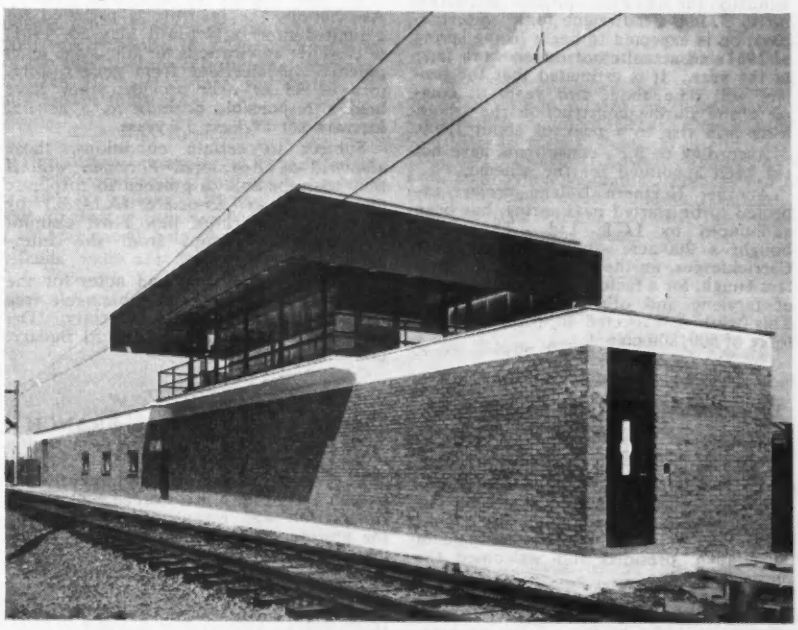
The structural floor of each span was designed to be erected in a few hours to minimise disturbance of railway operation. The superstructure of the overbridge is of London stock brickwork used as simply as possible with a lightweight roof system, again of trussed steel beams, designed to give lateral stability to the supporting brickwork.

Public areas have blue quarry-tiled floors, fair-faced brick walls and hardwood ceilings. Paintwork has been kept to a minimum, the rough texture of brick surfaces and the giant concrete superstructure being set against large sheets of plate glass, timber handrails and aluminium door furniture.

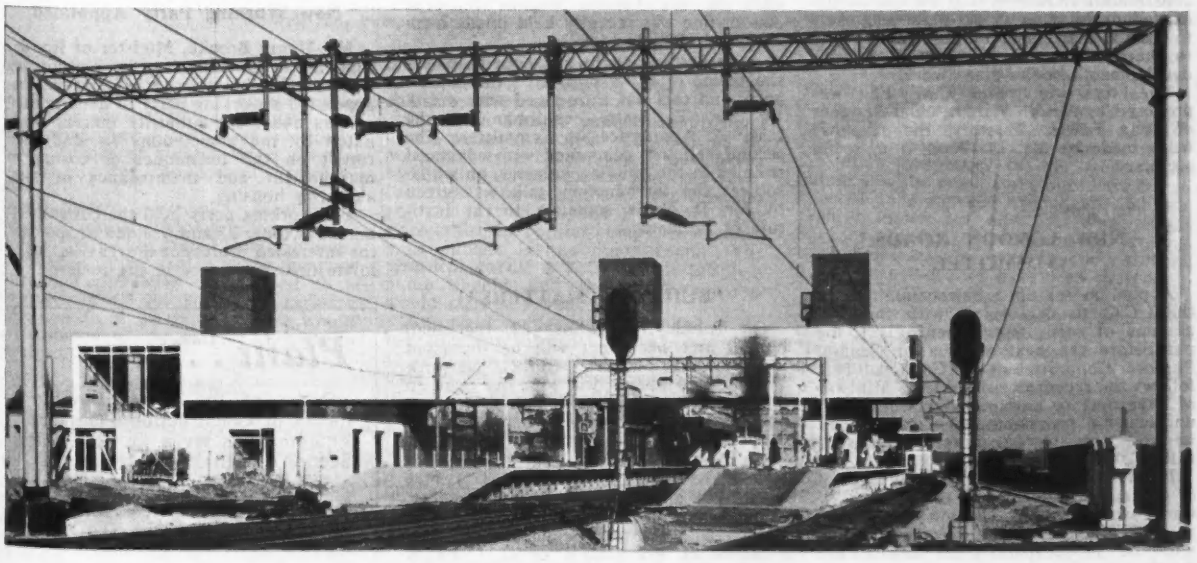
Lighting is provided by cold cathode fluorescent tubes, each fitting on the platforms bearing the name of the station. In the ticket office, booking hall and on the bridge, fluorescent tubes have been fitted in roof openings in order that both artificial and natural light emanate from the same source. Plastic louvres, set flush with the ceiling boarding, maintain the smooth overall finish. New lighting was provided in the station yard together with power supply for the three lifts amounting to an electrical load in the region of 70-kVA.

There are four tracks through the station: the two island platforms enable Hertford (East) and Bishop's Stortford electric trains to be divided, or combined, on the outer loop lines, leaving the two

(Concluded on page 920)



The new signal box



View of Broxbourne Station, from the London end

£8M. OIL REFINERY FOR BELFAST

THE British Petroleum Co., Ltd., have announced plans to build an oil refinery at Belfast, requiring an initial investment of about £8 million.

It is reported that discussions have been in progress for several months with the Northern Ireland Government and negotiations are now in progress with the Belfast Harbour Commissioners for a site on reclaimed land to the north-east of the existing oil storage installations in the Musgrave Channel of Belfast Harbour.

The refinery will have an initial capacity for handling 1,300,000 tons of crude oil annually, the oil being imported in tankers up to 32,000 deadweight tons. Site preparation is expected to begin in the spring of 1961 and actual construction work later in the year. It is estimated that the project will take about two years to complete and during construction the labour force will rise to a peak of about 1,400.

According to B.P., consultants have not yet been appointed for the scheme.

Another Northern Ireland project expected to be started next spring, has been announced by I.C.I., Ltd. They have bought a 200-acre site at Kilroot, near Carrickfergus, on the opposite side of Belfast Lough, for a factory for the production of terylene and other man-made fibres. This work is expected to need a labour force of 600/800 men.

YORKSHIRE PLANT ENGINEERS DINE

The second annual dinner and dance of the Yorkshire branch of the Contractors Mechanical Plant Engineers was held last Friday evening at the Hotel Metropole, Leeds. Mr. W. J. Muircroft, chairman of the branch, presided and welcomed the guests.

Replying to the toast, Mr. Lawrence McCarthy, editor of *The Contract Journal* congratulated the branch on the progress made since its formation. Membership now exceeded 160 and past members of the branch had been instrumental in starting the Derbyshire branch.

He was very interested to learn that during the past year the activities of the branch had been centred on education in the plant user field, lectures being directed at civil engineering students and plant operators. Members of the C.M.P.E. played an important part in the great construction works undertaken in this country and between them were responsible for handling many millions of pounds worth of equipment. It was of great benefit to the construction industries that the association existed enabling as it did plant engineers to discuss matters of mutual interest and to keep themselves up to date with developments in the plant world.

The toast of "The C.M.P.E." was proposed by Mr. C. Wright, chief designer of John Fowler Tractors, the response being made by Mr. L. Wood, hon. social secretary.

NEW LONDON ROADS COMMITTEE

A plan to set up a new committee of the L.C.C. to deal solely with the programme of road improvements, is to be put before the next meeting of General Purposes Committee of the Council. This follows the recent decision of the Minister of Transport to authorise the Council to undertake a programme of London road improvements on an increased scale of £10,000,000 a year.

It is felt that the magnitude and urgency of the task—hitherto part of the duty of the Town Planning Committee—require the undivided attention of a committee with no preoccupations to ensure the greatest possible progress.

ADMISSION TO NEW CLASS OF REGISTERED FOREMAN

THE Council of the Institute of Builders announces that it is now prepared to receive applications for admission to the new non-corporate class of Registered Foreman.

Members of this class will be entitled to all the rights and privileges of non-corporate membership. The only qualification so far approved for admission for those of 25 or over is the City and Guilds Certificate in General Foremanship Studies together with a minimum period of two years in a responsible position as a general foreman.

At the request of certain Foremen's Associations the Institute is prepared for a limited time only (until May 20, 1961) to consider applications for admission upon practice qualifications from general foremen of 45 or over provided they have held a responsible position as a general foreman for at least 10 years.

Subject to certain conditions, those admitted as Registered Foremen will, if they wish, be able to proceed to corporate membership as Associate (A.I.O.B.) by taking the Institute's new Final examinations (being exempt from the Intermediate examination).

Forms of application and notes for the guidance of applicants are obtainable free on application to the Secretary, The Institute of Builders, 48 Bedford Square, London, W.C.1.

R.C.A. SOUTH WALES BRANCH INAUGURATED

The South Wales and Monmouthshire branch of the Reinforced Concrete Association was recently inaugurated by the president, Mr. W. K. Laing. Approximately 170 people attended, and after his address, the president was the first of five speakers on "Bridge Construction for Motorways." The others included Mr. H. C. Adams (Ministry of Transport); Mr. Robert F. Earley (consulting engineer); Mr. W. A. Eyre (Robert M. Douglas (Contractors) Ltd.); and Mr. J. M. Burke (W. S. Atkins and Partners).

The following have been elected officers of the new branch: Chairman—Mr. Wallace A. Evans; vice-chairman—Mr. W. H. Lintill; secretary—Mr. A. R. Hall.

L.M.B.A. EDUCATION CONFERENCE

The eleventh annual education conference of the London Master Builders' Association was recently held in the Ironmongers' Hall, London.

A new approach to apprenticeship was the theme of the first part of the conference, and this was introduced with a talk by Mr. E. Smith, chairman of the L.M.B.A. Apprenticeship Committee. The second half was concerned with advanced training in the building industry, on which subject the introductory talk was given by Mr. D. Neale, secretary to the Institute of Builders.

"BUILDING MATTERS"

On Tuesday, November 22, the small builder and his client will be discussed in "Building Matters" (B.B.C. Network Three). Two clients will join the team to discuss the problems which they, and the builders, have to face when work is carried out on their property.

On November 29, J. Mills, president, National Federation of Building Trades Operatives, and J. Hayward, safety officer, will discuss the problem of accident prevention with the team which, for the two programmes, will consist of C. Crichton and K. Pearce.

Late Construction News

WANDSWORTH HOUSING.—The tender of Speirs, Ltd., 88 Upper Richmond Road, London, S.W.15, at £129,921, has been accepted by Wandsworth B.C. for the erection of 18 houses and 41 flats at St. Ann's Hill site.

18-STOREY L.C.C. BLOCKS.—Tenders for Blocks 4, 5 and 6—18-storey flats and maisonnettes—at Maida Vale site, Paddington, are due in to the L.C.C. at the end of this month. Included in the contract will be the erection of tenants' stores and transformer chambers, and the laying of roads. Plans are by the County Architect, and the quantity surveyors are Franklin and Andrews, 173 Fleet Street, London, E.C.4. Another L.C.C. scheme now out to tender is for the erection of 11- and two-storey blocks at Shooter's Hill Road site, Greenwich (Blocks 1-14). The quantity surveyors for this scheme are Robinson and Roods, 11 Grays Inn Square, London, W.C.1.

WOOD GREEN SCHOOL.—Middlesex C.C. are to place a contract with Prestige and Co., Ltd., 149 Grosvenor Road, London, S.W.1, for building the Wood Green Grammar School. Plans are by the County Architect, Whitfield Lewis, and the quantity surveyors are Mercer and Miller, 10 Manchester Square, London, W.1.

GAMBIA FERRY TERMINAL. — Societé Dumez, Paris, have been awarded a contract by the Gambian Government for the construction of a ferry terminal at Barra, on the north bank of the Gambia River estuary. The works consist of a piled access jetty, about 1,000ft. long, in reinforced concrete, a solid berthing head incorporating a vehicle landing ramp, and shore ancillaries. The consulting engineers for the scheme ar G. Maunsell and Partners, 66 Haymarket, London, S.W.1.

M.O.W. OFFICES. — The Ministry of Works are inviting tenders from selected contractors for the erection of a sub-district office and a branch office at Abbey Wood Road, London, S.E.2. The quantity surveyors are Josling and Hamlyn, 9 Southampton Road, London, W.C.1.

SHEFFIELD HOSPITAL BUILDING.—Sheffield Regional Hospital Board have received Ministry approval to erect a seven-storey radiotherapy centre at Whitham Road, Broomhill. The cost of the building is estimated at about £800,000. Adams, Holden and Pearson, 38 Gordon Square, London, W.C.1, are the architects.

LOCAL AUTHORITY HOUSING

New Working Party Appointed

Mr. Henry Brooke, Minister of Housing and Local Government, in consultation with the local authority associations, has appointed a working party of departmental officers and local authority officers nominated by the associations to study and report on the techniques of costing of management and maintenance of local authority housing.

The working party held their first meeting on October 27 and decided to approach the interested professional organisations to invite their assistance in the review.

Plant . . .

News of the Latest Developments in Construction Plant and Equipment is given in the Trade Section starting on Page 945.

This section, which appears regularly each week in *The Contract Journal*, is the most comprehensive of its kind.

SOUTH CAMBRIDGESHIRE'S COMPREHENSIVE WATER SUPPLY SCHEME

Major Part Completed

A RECENT visit to the Dottrell Hall Pumping Station by the Lord Lieutenant of Cambridgeshire marked the completion of the major part of South Cambridgeshire Rural Council's comprehensive water supply scheme.

The Rural District comprises 52 parishes and extends from Gamlingay and Guilden Morden in the west to Weston Colville and Shudy Camps in the east, a distance of about 25 miles. In general the area lies on chalk formation, but in the western section Lower Greensand underlies gault clay. The council rely on these underground formations for their public water supply, the chalk being the more prolific and reliable source of water than the Lower Greensand.

An investigation was first carried out to find a new source of supply for the 11 parishes in the central area. As the existing Greensand source was showing signs of becoming depleted, it was decided that any new source should also supply some of the parishes in the western area. Accordingly an exploratory borehole was sunk on the Dottrell Hall site in 1951 and test pumping showed that there was likely to be a supply of potable water on the site adequate for the council's requirements.

It was therefore decided to develop the site and build a pumping station there. Water would be abstracted from the borehole on the site, be treated at the pumping station and thereafter be pumped to a new reservoir of 1,000,000 gallons capacity at Heydon from where the water would be distributed to the various parishes in the central area.

First Borehole

The first permanent borehole was sunk in 1952 to a depth of 160ft. Following satisfactory test pumping, a second borehole was sunk in 1955 to the same depth. On completion of this work, the council obtained a licence to abstract approximately 1,000,000 gallons of water per day from these boreholes.

The construction of the pumping station was started in 1959 and the new plant was put into commission at the end of August, 1960.

The layout of the pumping station is as follows: A submersible borehole pump is erected in each borehole. The pumps are driven by submerged squirrel cage electric motors, their associated starters being installed in the pumping station. The pumps, which can be run either independently or together, can lift water from the boreholes to a surface reservoir on the site. Before entering the reservoir, chlorine is injected into the water for sterilisation purposes.

R.C. Reservoir

The surface reservoir is of reinforced concrete construction and has a capacity of 100,000 gallons. It has a partition wall dividing it into two halves to enable it to be cleaned out, when necessary.

Baffle walls are constructed to ensure the proper circulation of the water and to provide a contact period for the chlorination process.



Dottrell Hall Pumping Station

Duplicate booster pumps are provided in the pumping station. They are of the horizontal type centrifugal pumps driven by slip ring electric motors and each pump can draw water from the surface reservoir and pump it to Heydon Reservoir. The starters for the booster pumps are installed in a cubicle in the pump room. The electrical circuit is such that, if the duty pump should fail, the stand-by pump would start automatically.

Automatic equipment is installed in the hydraulic control panel in the pump room to record or indicate the water levels in each borehole, in the surface reservoir and in Heydon Reservoir. Venturi meters are also provided on the delivery mains from the borehole and high lift pumps to indicate and record the flow of water.

The pumps can be run on either hand or automatic control. Under automatic control, the pump starters are actuated by the water levels in the surface reservoir and Heydon Reservoir. These operating levels can be adjusted, if necessary.

Flywheels are fitted to each booster pump to reduce the effect of water hammer on the equipment due to a sudden stoppage of the pumps.

A chlorinator is installed in a separate room. It is of the gaseous type and is automatically controlled by the starting and stopping of the borehole pumps.

Arrangements are also made for automatically changing over chlorine gas cylinders, as one becomes empty. A chlorine residual recorder is provided in the pump room to sample and record the chlorine residual of the water as it leaves the station.

It is intended that the pumping station should be fully automatic and advantage has been taken of the Electricity Board's preferential tariff for electricity consumed in off-peak periods.

Consultants and Contractors

Consulting engineers for the scheme were Lemon and Blizard, of Westminster. Contractors included: George Stowe and Co., Ltd., boreholes; Biggs, Wall and Co., Ltd., and Edward J. Edwards (Norwich), Ltd., mainlaying; W. and C. French, Ltd., reservoir construction; Lindum (Lincoln), Ltd., pumping station; Hayward Tyler and Co., Ltd., pumping plant.

ROAD ACCIDENTS—B.S.S. 812

To the Editor of "The Contract Journal."

Sir,—Apart from the publications of the Road Research Laboratory on the subject of skidding and its remedies, I think that the revised British Standard No. 812 1960 on the "Methods of Sampling and Testing Mineral Aggregates, Sands and Fillers" needs extra publicity at this time because this specification now includes for the first time a test to determine the polishing of stone under traffic.

About a sixth of all accidents are skidding accidents and even omitting realignment and superelevation which may be necessary these accidents can be reduced by 70 per cent. to 90 per cent. by the use of a better stone either in the surfacing or as surface dressing. From the results obtained in Hampshire there would seem to me to be a moral obligation on highway engineers and highway authorities to treat in this way skidding accident sites and test road surfaces at potential skidding sites and sites where there may be emergency braking, as at the approaches to roundabouts, pedestrian crossings, traffic lights, etc.

By this means wet skidding accidents at tested sites in Hampshire have been reduced during the past 2½ years from 270 to 36 (including 10 fatalities reduced to 0).

The method of application of the new test in Hampshire has been to ask stone suppliers to state in their tenders the polished stone value of their stone when tendering. This has been checked in the County Laboratory on the method set out in the new British Standard 812. This value has been taken into account with the other properties of the stone and indeed also the price, and stones have been selected in Hampshire which are .60 or slightly under for most skidding sites, but for difficult sites (sharp curvature, steep gradients and hard braking) stones with values above .60 have been chosen.

From my experience as chairman of the British Standards Specification Committee concerned with this specification and in Hampshire, and with regard to the availability of stone and the test in practice I would not advise that the minimum polished stone value should be called for in a specification, for the simple reason that to quote precise value of, say, .63 might rule out stones of, say, .61 or .62 which the results do not justify.

Your, etc.,

H. N. JENNER,
County Surveyor,
Hampshire.

Men and Movements

OWING to the serious ill health of **Mr. H. S. Frost,** which has made it impossible for him to continue as joint managing director, he has resigned from the board of Sir Lindsay Parkinson and Co., Ltd. The following appointments have been made by the company: **Mr. T. E. Barker,** lately joint managing director becomes deputy chairman, and **Mr. F. V. Osborne,** M. I. C. E., M. I. Struct. E., M.I.C.E.I., and **Mr. A. W. Robinson** become joint managing directors.

Seconded to Richard Thomas and Baldwins, Ltd., to act as construction manager at the Spencer works is **Mr. Derek R. R. Rich,** a partner in W. S. Atkins and Partners, the London firm of consulting engineers. Mr. Rich will maintain his association with W. S. Atkins and Partners, and will continue to be concerned with certain of the firm's commitments.

The mining plant division of F. Taylor and Sons (Manchester), Ltd., a member of the Steel Group of Companies, has announced the appointment of **Mr. T. H. B. Lawther,** A.R.S.M., B.Sc., M.I.M.M., as a technical sales executive. Mr. Lawther has spent many years working in metalliferous mines in Spain, Egypt and British Guiana. He was until recently manager for The African Manganese Co. (Mines Management), Ltd., at their manganese mining project in British Guiana.

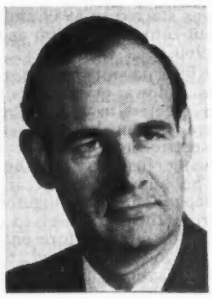
J. I. Case Co., Ltd., have announced the promotion of **Mr. Harry Bray** to inspector for the company. Mr. Bray has been a service engineer with Case since their establishment in this country.

A new director of Trollope and Colls, Ltd., is **Mr. Daniel Meinertzhagen,** who is also managing director of Lazard Bros. and Co., Ltd., and a director of W. T. Henley's Telegraph Works Co., Ltd.

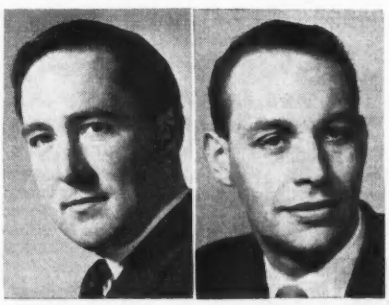
W. C. Youngman, Ltd., have appointed **Mr. L. Bryant** to the sales staff of their fork truck hire service. Mr. Bryant was previously a representative in the service department of the Yale and Towne Manufacturing Company.

Mr. George A. Flume of Carrier International, Ltd., has returned to America after six months in London as technical adviser to Carlyle Air Conditioning and Refrigeration, Ltd. He will now resume his position as manager of the Miami office of Carrier International, Ltd., responsible for the Caribbean and northern Latin American territories.

Caterpillar Tractor Co., Ltd., have announced the appointment of district representatives and a new earthmoving representative, to work with Caterpillar dealers in Great Britain and Ireland. **Mr. Ross Adcock,** who has been Caterpillar's district representative in U.K. since 1957, will take up the position of district representative for India, Pakistan and Ceylon early next year, with Caterpillar Overseas C.A. **Mr. John Rogers,** who joined the company in 1957, has been appointed district representative to work with Bowmaker (Plant), Ltd., Fred Myers, Ltd., and the Leverton group of companies. **Mr. George Bryden** succeeds Mr. Rogers as district representative for Scotland and Ireland. He has been with Caterpillar since 1957



J. ROGERS



G. BRYDEN T. QUADLING

and has worked as a field engineer until his appointment as earthmoving representative in 1959. **Mr. Terry Quadling** becomes earthmoving representative. Since joining Caterpillar in 1959 he has worked as a sales engineer in the sales training division at Glasgow.

Mr. George A. Black, export director of Martin, Black and Co. (Wire Ropes), Ltd., has returned from a three-month world tour, during which he has visited India, Malaya, Singapore, Hong Kong, The Philippines, Canada and the United States.



Mr. R. D. McLeod, a director of Holland & Hannen and Cubitts (Great Britain), Ltd., the contractors, speaking at a recent ceremony at Northfleet, Kent, when the Royal Institute of British Architects bronze medal was presented for the engineering and research building of The Bowater Paper Corporation. He is holding the diploma presented to him by Mr. Frederick Gibberd (right) vice-president of the R.I.B.A.

Changes have been made in the administrative duties of the board of S. Wernick and Sons, Ltd. **Mr. S. Wernick,** jun., who has been in charge of production at the Brownhills (Staffs.) factory, becomes chairman of the board, and will now be responsible for production at Brownhills, and the factory at Wolverhampton, as well as Dainty, Smith and Co., Ltd., a subsidiary. The former production director at Wolverhampton, **Mr. M. Nieman,** is taking over at the Billericay factory in a similar capacity. In addition to their duties as sales directors, **Mr. N. Wernick** and **Mr. J. Wernick** have been appointed joint managing directors with responsibility for overall co-ordination and future planning. **Mr. L. Wernick,** hitherto production director at Billericay, will be responsible for a new department which is being set up to centralise the firm's buying activities, and for the development of the factored goods division. **Mr. C. E. Symonds,** A.C.C.S., who is a director of Dainty, Smith and Co., has been appointed to the main board.

Mr. K. D. Vick, previously their London representative, has been appointed to the board of Cranes (Dereham), Ltd.

Mr. Ronald B. Ogden, deputy chairman of the Bath and Portland Group, has been appointed chairman in succession to **Mr. Alan N. Pictor,** who has retired. Mr. Pictor becomes the company's first president. The new deputy chairman is **Mr. A. R. Davies.** Other appointments to the board are those of **Mr. R. F. Hill,** managing director of Higgs and Hill, Ltd., and **Mr. Kenneth Selby,** who also becomes managing director of Bath and Portland.

Lt.-Cmdr. G. W. Wells, managing director, production, The United Steel Companies, Ltd., and also director and general manager, Appleby-Frodingham Steel Co., Ltd., has been appointed chairman of Appleby-Frodingham. He is succeeded as director and general manager by **Mr. J. D. Joy,** previously director and deputy general manager.

Gould Plant Hire, Ltd., have formed a new department devoted to truck-mounted cranes, under the management of **Mr. F. Woodley.**

(Concluded from page 917)

centre tracks free for main line expresses. Each platform can accommodate eight-car trains but provision has been made for their possible future extension to twelve-car capacity. The resiting of the station has also enabled track connections to the main line to be carried out without the added expense of costly bridge works.

The new signal box houses a power interlocking—controlling all the layout associated with the new station and its approaches. It includes accommodation for both signal engineering and operating staff, and provides space for a new telephone exchange which will shortly be installed in connection with the modernisation of the Eastern Region telecommunications system. The box is situated on the Up side of the line slightly to the north of the platforms.

The new station was designed by Mr. H. H. Powell, B.Arch., F.R.I.B.A., regional architect, and the work carried out under the general direction of Mr. A. K. Terris, B.Sc., M.I.C.E., chief civil engineer, Eastern Region. The whole of the signalling and telecommunications work has been carried out under the direction of Mr. R. A. Green, M.B.E., E.R.D., A.M.I.E.E., signal engineer, Eastern Region. The lighting installation was designed by Mr. T. C. B. Miller, M.B.E., M.I.Mech.E., M.I.Loco.E., chief mechanical and electrical engineer.

W. and C. French, Ltd., were the main contractors for the station, the civil engineering work being carried out by W. Fairclough and Co., Ltd. The general contractors for the signal box were Hosking and Son (Essex), Ltd.

BIG DRIVE TO INCREASE FORD SALES IN EUROPE

1,000 Delegates Attend Hamburg Convention

GOVERNMENT representatives, influential members of industrial and agricultural bodies, leaders of trade organisations throughout Europe and United Kingdom and Continental dealers were among the 1,000 delegates and guests who attended a four-day sales convention staged in Hamburg last week by the British Ford Motor Co., Ltd.

At the Planten un Blomen exhibition centre, delegates were welcomed by Sir Patrick Hennessy, chairman of the company, who said: "We have a twofold objective here in Hamburg. First, by bringing our products and our sales teams to this city—in the heart of the European markets—to join representatives of our associated companies, members of the Ford and Fordson family of dealers, and leaders of important trade and government organisations from 15 countries—by doing all this we feel that we are expressing, in a tangible way, our confidence in the products we have to sell, in the countries we do business with, and in the people who market our products for us.

"Secondly, we know that the exchange of ideas resulting from gatherings of this kind—and particularly gatherings of this magnitude—is vital in this age of expanding international trade."

Continuing Expansion

Sir Patrick said that in all their activities that went toward the making and selling of their tractors, cars and trucks, they were constantly spurred by the promise of continuing expansion in Europe. And their hopes were continually fortified by the results achieved.

"To bring our story right up to date," he stated, "I am glad to say that during the first 9 months of this year we have sold no fewer than 78,000 vehicles of every kind in Europe—an increase of 45 per cent. compared with the same period of 1959. Moreover, for 1961, we confidently anticipate a further increase of 23 per cent. over the total 1960 figure.

"We expect our light-car sales in Europe this year to be 57 per cent. higher than those of last year—and in 1961 we anticipate that they will rise 32 per cent. higher than this year's figure. Of all British car exports to Europe, Ford of Dagenham's share amounts to the very gratifying figure of 60 per cent.

"We are making steady progress too, with the supply of trucks to Europe. In 1959, our sales amounted to 3,000 vehicles; by the end of this year they will have risen considerably and next year will continue to do so.

"Finally—but by no means last or least in importance—there are our tractors. They have their own success story to tell. By the end of this year we shall have sold 19,400 in Europe, and next year we expect to send more than 22,500. Currently, in fact, British Fordsons are accounting for 40 per cent. of all British tractor exports to Europe."

Sir Patrick added that by staging the convention in Hamburg they had gone into the heart of Europe behind all the barriers "ignoring the Common Market and the Outer Seven—the sixes and sevens."

"We shall certainly respect the individual requirements of these two important trade blocks," he said, "but I believe that Europe will finally emerge as a single and united trading area. In expressing this hope I feel I am doing no more than to anticipate the inevitable. Common sense must prevail."

Field Demonstration

On Friday, the final day of the convention, delegates motored to Schnelsen where they saw a field demonstration of agricultural and industrial machines, further details of which will be published in a subsequent issue.

£1.3M. RESERVOIR PLANNED AT EDINBURGH

EDINBURGH CORPORATION are to proceed with the construction of a reservoir on the Fruid Water, an upper tributary of the Tweed which is already partially developed for the supply of water to the City.

The proposed scheme, which will increase the Corporation's resources from 38 million gallons per day to over 45 million gallons per day is estimated to cost £1,300,000, and is the largest waterworks undertaken by the corporation since the Talla scheme at the beginning of this century.

The reservoir, which will be formed by an earthen dam 75 feet high, will be two miles long and have a capacity of over 2,000 million gallons. The natural catchment area of 5,300 acres will be increased by the introduction into the reservoir of two smaller tributaries of the Tweed by aqueduct tunnels.

The consulting engineers are Robert H. Cuthbertson and Associates, of Edinburgh, and it is proposed that construction shall commence in 1962 and be completed in 1966.

FORTH ROAD BRIDGE

Cable Anchorage Contract

A £25,000 cable anchorage contract in connection with construction of the new Forth Road Bridge has been awarded to The Cementation Company.

The bridge has two side towers and two river piers. Its design is such that vertical cables are required through the legs of each side tower to compensate stresses applied by the suspension bridge. The cables are anchored in the rock below. There will be a total of 80 high-tensile steel cables, each stressed to a working load of 120 tons.

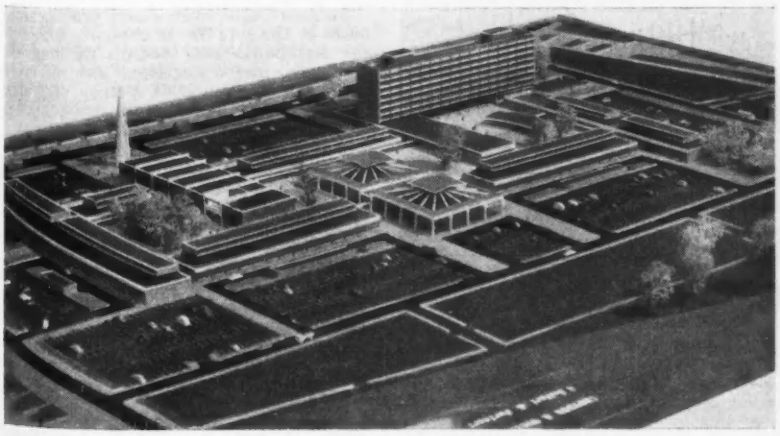
Coyne Method

Provision, installation and stressing of the cables, together with the drilling of cable holes in the rock, are being undertaken by Cementation. A technique of cable anchorage new to this country—the Coyne method—is being used. The work will be completed by about mid-February, 1961.

PLAN TO DEVELOP PART OF CROYDON AIRPORT

THE fate of a £5 million scheme for the development of 90 acres on the 400-acre Croydon Airport site, Surrey, will be known soon, when the Minister of Housing and Local Government gives his decision, following a recent public enquiry into the proposals.

Park Investments, Ltd., the promoters of the scheme, whose architects are R. Seifert and Partners, 34 Red Lion Square, London, W.C.1, have drawn up an ambitious plan which provides for, among other things, what is claimed would be the world's largest supermarket. It is this part of the project which brought objections from the Surrey County Council, who insist that such a development would take trade away from central Croydon. However, the scheme received the backing of the Beddington and Wallington Borough Council within whose boundaries it lies.



Model of the proposed development

The supermarket, covering 32,000 sq. ft., is the centrepiece of the plan for a shopping precinct extending over 30 acres. Two large departmental stores, a restaurant, cafeteria, two banks, a petrol-filling station and a public house would be erected and, in addition, there would be 84 shops plus 17 maisonnettes for the occupants of the supermarket.

Part of this area is earmarked for an eight-storey office block with a floor area of 120,000 sq. ft. Like the rest of the buildings in the precinct, most of which would be of two-storeys, the block would be constructed in reinforced concrete.

The development, if approved, would be undertaken by George Wimpey and Co., Ltd., who would erect about 1,000 houses for sale on the remaining 60 acres of the site.

A feature of the scheme is the provision of parking space for more than 1,800 cars around the perimeter of the shopping area. The layout segregates car parking and roads from the shops, pedestrian access being by underground passes. Trade vehicles would have their own road divorced from other roads and pedestrian ways.

Talking of Safety

by "DRAGEE"

AS I pondered over the case of Alf and his mobile crane, my mind went back to an incident just after the war at the time when we were making good use of our brand-new three tonner. Jake Perkins, the driver, had completed his course of instruction, and on this particular day he had been told to take his machine from Site "Y," where it had been working for several busy weeks, to Site "Z" where a "running-in" inspection would be made, followed by a further job of work. The transfer involved a journey of some five or six hundred yards along the main road, and this is where Perkins ran into trouble.

Let me describe the occurrence more or less in the words of an eye-witness, Harry Higgs, a joiner's mate from Site "Y":

I was sitting on the top deck of the bus (said Harry) reading the Greyhound News and wondering why the heck I ever bothered with the perishers—when the bus suddenly pulled up a bit sharpish and the next thing I heard the window opened behind me neck. Not quite, like—it was a ruddy big bang and a shower o' glass fell on to me paper and all over the geezer what was sitting in the next seat. 'Cripes', he said, jumping up, 'what the 'eck is that thing?'

A wheel was sticking through the window and it didn't take a couple of seconds to guess that it was the top end of a crane jib, and by the look of it I guessed as well that Jake Perkins wasn't far off, having a pretty worrying time, by the sound of it. The conductor and me passed on the stairs—that was bad luck for a start—and he was hollering to ask if everybody was all right, while I went down to listen to a very interesting conversation which had started up between the driver and Jake.

Jake looked at me as though I had made his day for him—the wrong kind of day. We hadn't exactly been friends since he put his shirt and Sunday pants on 'Mother's Boy', and now my showing up wasn't exactly a tonic. However, it doesn't do to keep up a quarrel.

'Hullo Jake,' I said, trying to look sympathetic. 'Been doing overtime?'

'I'll do you if you stand around here,' Jake said, very soft, but kind of angry.

'If you want a witness—' I started to say, but he cut in:

'I don't need a flippin witness, and if I did I wouldn't trust you, not if you was the only beggar willin' to speak for me in ten miles walk.'

'Well I only wanted to help' I said. 'I could always tell the beak you hadn't 'ad much experience, or summat.'

By this time a few people was gettin' interested in our conversation. After all, it isn't every day a crane runs into the back of a bus, but Jake was looking at me a bit queer so I packed it up and went to look for another bus. And that's all I know, sir.

Jake's collision was put down as an accident, and so the matter was settled more or less amicably between the insurers. If we go back to the more usual type of collision with an overhead obstruction, we often find the consequences to be more serious, and this is particularly so where overhead conductor wires are involved.

There have been many cases of this kind, but one particularly unfortunate one occurred on a factory premises in the course of unloading a number of lengths of steel ducting with a crane mounted on a lorry. Three men were attaching chain slings to one of the sections when the head of the jib made contact with an overhead conductor wire. The lorry was fitted with rubber tyres, and the men received relatively mild shocks, but one man was sufficiently affected to lose his balance and fall over the side of the vehicle.

Most unfortunately, as he reached the ground, the man shot out his hand and touched the charged chassis of the lorry. He was immediately electrocuted.

Nowadays, with so many large mobile cranes running about on our sites, the authorities have made a number of rules relating to operations near overhead conductors, but at the same time it is recognised that site work has to go on, and ways and means have to be found for the work to continue in safety. The usual arrangement is some kind of a barricade, but more recently an electronic proximity device has been developed which gives warning to the driver of a vehicle approaching a charged conductor. It is claimed that the device is directional and that it fails to safety—if it fails at all. A very interesting idea.

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.



"He says he must be prepared—just in case!"

BOOK REVIEWS

Cabma Register 1960-61 of British Industrial Products for Canada. Eighth edition. Published jointly by Kelly's Directories, Ltd., and Iliffe and Sons, Ltd., for the Canadian Association of British Manufacturers and Agencies. Price 15s. post free.

The Register has been published annually since 1953 for the Canadian Association of British Manufacturers whose object is to develop an ever greater market for British Goods in Canada and so stimulate the two-way flow of trade between the two countries.

The Classified List of Products consists of more than 3,000 British products available to the Canadian market, with their suppliers given under each heading. The French equivalents of these headings are set out in alphabetical order in a separate glossary. A directory of nearly 4,000 British firms gives details of their distribution arrangements in Canada. Proprietary names and trade marks are given in special sections which enable the Canadian buyer to identify products and their sources of supply. The six sections of the Register are easily identified by the slotted index and the tinted paper.

Spon's Architects' and Builders' Price Book, 1960-61. Edited by Davis, Belfield and Everest, chartered quantity surveyors. Publishers: E. and F. N. Spon, Ltd., 22 Henrietta Street, London, W.C.2. Price 35s. 782pp.

The annual achievement of producing an improved SPON'S is once more evident in the form of the 86th edition of this long-established and well-known reference book.

A complete revision has been carried out and many items have been added to this year's volume, which nevertheless retains its familiar concise form. All prices and other data have been amended to take into account fluctuations in the cost of labour and materials up to the end of June, 1960, and developments later than this date are contained in a Stop Press section.

Apart from the book's general information on prices, which is of course essential to the builder and his professional colleagues, a valuable and interesting guide to the cost factor is given in the section headed Comparative Prices.

Applied Building Construction—A Third Year Course, by A. Medlycott. Publishers: Chapman and Hall, 37 Essex Street, London, W.C.2. Price 25s. 147pp.

This final volume in what consists of a complete course for the study of applied building construction, while following the same general pattern as Volumes 1 and 2, is a great deal more advanced in its information. Nevertheless, it still has a great deal to offer the non-student layman or the devotee to "do-it-yourself."

Modern requirements and practices are much to the fore in the contents, although the techniques and precepts of long use are by no means neglected. Almost every page has its quota of simple diagrams, which leave no doubt in the reader's mind as to the exact meaning of the text.

Items are collated under chapter headings, which include such subjects as Foundations; Load-Bearing Walls; Framed Buildings; Roofs; Hot Water Service and Heating; and Drainage. An index is also provided, which serves to make the volume a useful post-graduate reference as well as a textbook.

BOOKS RECEIVED

"Proceedings of the International Clean Air Conference, 1959." Published by the Society at Field House, Breams Buildings, London, E.C.4. Price 30s.; by post 32s. 6d.

International Construction

KILINDINI HARBOUR INSTALLATION

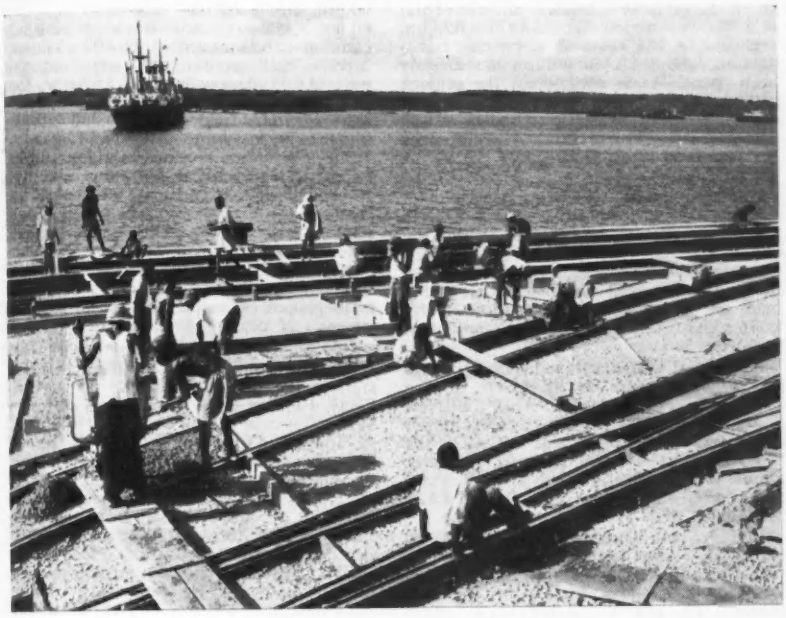
1,912yd. of Track Laid in 3 Months

TRACK installation recently undertaken at Kilindini Harbour, Kenya, for the East African Railways and Harbours, by Grant, Lyon & Co. Ltd. of Scunthorpe, Lincs., one of the Chamberlain Group of Companies, comprises approx. 1,912 lineal yards of 3ft. 4½in. track gauge, and includes 16 turnouts, three diamond crossings, one scissor crossover and four crossing units.

The rail used was 126.2lb. per yard dock rail, which was laid on a continuous concrete foundation. The work was carried out with native labour under white supervision and completed in three months.

The contract for the rail tracks was undertaken by Grant, Lyon & Co. Ltd., in conjunction with Edgar Allen & Co. Ltd., Sheffield, who supplied all the materials as subcontractors to the main contractors, Christiani Neilson, J. L. Kier & Co. Ltd.

The consulting engineers were Coode & Partners.



Track installation in progress

CEMENTATION GROUP ESTABLISH AUSTRALIAN BRANCH

A branch of the Cementation Group has been established in Australia. Operating initially from Melbourne, it will concentrate on all aspects of foundation engineering including piling, anchor stressing, exploratory drilling, grouting, and the application of Cementation and allied geotechnical processes.

Although only now establishing itself on the mainland of Australia, the Cementation Group are already playing a major role in the Catagunya dam project, a stage in the Tasmanian Hydro-Electric Commission's development of the Derwent river catchment.

Mr. J. Carlile, the group's engineer in charge at Catagunya, has arrived in Melbourne to take up the appointment of manager of the new branch.

ENGINE ORDERS FROM FINLAND AND CANADA

Orders from abroad for their high-speed diesel engines, valued at over £325,000, are reported by A.E.C. (Sales), Ltd., Southall Middx. Vanajan Autotehus Oy, of Helsinki, have asked for 250 AH470 engines and spares, and Canadian Car Co., Ltd., Montreal, have placed a repeat order for 106 AV690 diesel power units of 11.3 litre capacity.

SIERRA LEONE WATER SUPPLY CONTRACTS

Taylor Woodrow (Sierra Leone) Ltd. have been awarded contracts valued at over £170,000 for the construction of waterworks at Makeni and Moyamba for the Government of Sierra Leone. The consulting engineers are Howard Humphreys and Sons.

Both contracts entail the construction of intake works, booster stations, treatment works, the laying of a trunk main to each town, and also distribution mains in both Makeni and Moyamba.

Work is about to begin and the Makeni scheme will be completed in twelve months and the Moyamba one in six months.

CUMMINS TO MANUFACTURE IN AUSTRALIA

Cummins Engine Company, Inc., of Columbus, Indiana, are to establish manufacturing facilities in Australia. Mr. E. D. Tull, President, stated facilities will be obtained immediately in the Melbourne area and assembly of engines is planned by April of 1961.

The plant will initially produce the J and C line of Cummins engines in the 70 to 175 horsepower range, primarily for construction and automotive applications. All parts will be interchangeable with those now manufactured at the Cummins plant in Columbus.

POLISH SAWN TIMBER

Britain Main Importer

THE export of softwood from Poland during eight months of this year amounted to about 275,000 cubic metres thus exceeding the level reached in the past four years, it is reported from Warsaw. This is an increase of about 27 per cent. in relation to 1959 when the total export of pine and fir sawn timber amounted to approximately 218,000 cubic metres in eight months.

Great Britain is the main importer of Polish sawn timber. About 178,000 cubic metres was sent here during eight months of the current year which is almost 30 per cent. more than in the previous year.

The German Federal Republic is in second place importing about 41,000 cubic metres of Polish sawn timber as against 28,000 cubic metres for the same period of 1959, then comes France where Poland exported 31,000 cubic metres maintaining the level of the previous year. Over 10,000 cubic metres was exported to Hungary. Smaller amounts of softwood were exported to Belgium, the Netherlands, Switzerland and Italy.

BUILDINGS BY POST

A London architect, Mr. C. A. V. Smith, A.R.I.B.A., designer of the aluminium "Commonwealth" house, is convinced that mass production of identical prefabricated houses is not the answer to world-wide building shortages. "What is wanted," he says, "is a sort of builder's Meccano set of light, easily transportable and cheap components, from which a whole variety of shapes and sizes of building can be constructed."

To meet this need, Mr. Smith and Mr. A. F. Rekert, of Mr. Smith's firm of Barnard and Smith, have devised a series of sheet metal sections of different shapes, which can be bolted together to conform with any architectural design, the resulting structure being similar in appearance to a conventional building. Patent applications are pending for this new method of construction, known as the R.A.B. system.

R.A.B. components are now being marketed in aluminium or steel by Ocees Components and Structures, Ltd., 49/54 Knightsbridge Court, London, S.W.1.

AUSTRALIA'S BIGGEST SINGLE HOUSING PROJECT

The biggest single housing project that has yet been undertaken in Australia is to be carried out by the New South Wales Housing Commission at Hoxton Park, in the municipality of Liverpool, 20 miles from Sydney.

At a cost of £A25 million it will provide 6,000 houses in a new garden suburb with its own shopping centres, parks, recreation areas and schools. The suburb will be built for the Commission over four years by private contractors. It will provide accommodation for 23,400 people.

The scheme involves release of 1,700 acres from Sydney's green belt. Many owners are contesting the terms of the acquisition and are demanding prices higher than the Commission's valuations.

£1½M. NAIROBI HOUSING CONTRACT

Alfred McAlpine and Son (Pty.), an associated company of Sir Alfred McAlpine and Son, Ltd., have been awarded a contract by the City Council of Nairobi for the construction of a new African township. Worth nearly £1½ million, the contract provides for the erection of 3,002 houses and ancillary services. Completion will take about three years.

International Construction

THE PATH TO PROGRESS

From an Australian Correspondent

THE Continent of Australia is a large and a dry one. Consequently the main measures of development of the country are in the fields of water conservation, power generation and transport.

Probably no greater task faces man today than the one of applying science and technology to their fullest in an effort to utilise the rather miserly gifts of nature to Australia. Consider the defects. It is the oldest of the continents and millions of years have rasped away until it has now the most level surface of all continents and the most regular outline. More than half is plateau which averages 1,000ft. above sea level and is mostly desert. The rainfall over 34 per cent. of the continent is less than 10in. a year; a further 42 per cent. receives enough rainfall to provide grazing but not enough for farm crops. The remaining 24 per cent., or 464 million acres, is climatically suited for agriculture and intensive grazing but this region contains areas of inherently infertile soil and hilly areas.

The lack of mountains and the little rain means that Australia has few rivers that carry a large volume of water. The largest river system, the River Murray and its tributaries, discharges only 10 million acre ft. of water a year compared with 146 million from the Ganges River. Inland rivers flow for a short period each year, and over a large part of the continent there are no rivers at all.

This environment presented the strongest challenge to the earliest settlers of Australia and from the earliest days it has not been unanswered. Today development is the catchcry on every Australian's lips and it has been translated into action. In June 1960, in Australia,191 major developmental projects estimated to cost £A871 million when completed, were in progress. Of these, projects for water conservation, supply, irrigation and drainage accounted for £A284 million; electricity generation, £A375 million, and transport, including telecommunications, £A212 million.

Government Responsibilities

Most of these projects are Government responsibilities and represent real confidence in the future of the country. Private enterprise has a big hand in promoting industry and agriculture.

The largest hydro-electric scheme in Australia, and one of the biggest in the world, is the Snowy Mountains Scheme in south-east Australia. The basis of this scheme is to divert the waters from rivers that rise in the snow-covered highlands through the mountains by means of tunnels so that they flow inland instead of into the sea. The scheme provides for nine major dams, 11 power stations and more than 80 miles of large-diameter tunnels. Total cost is estimated at £A374 million, exclusive of the costs of electricity transmission; about £A160 million has already been spent. When completed, the scheme will provide an extra 1,900,000 acre ft. of water a year for irrigation. This water will flow along the Murray and Murrumbidgee River systems to inland areas.

The largest reservoir in Australia is Lake Eucumbene, which will have a capacity of 3,860,000 acre ft. when it is filled. Lake Eucumbene is the key storage in the Snowy Scheme; it was completed in October 1958. At present two more dams, the Tantangara and the Tooma, are being built for the Scheme at a cost of nearly £A16 million. They are due for completion next year.

An idea of what increased water supplies for irrigation can do is given in the Murrumbidgee Irrigation Area in New South Wales. Here the total acreage under cultivation in 1957-58 was 193,602; the area averaged 432,000 acre ft. of water annually for irrigation for the 10 years before 1957-58 and growers received £A74 million for their products in that time.

In far North Queensland the Mareeba-Dimbulah irrigation scheme aims at irrigating 49,000 acres in Barron and Walsh River valleys, mainly for growing tobacco. The cost of the scheme is nearly £A14 million.

Two projects to cost about £A4 million and designed to irrigate about 35,000 acres of land are in progress in Western Australia in the Kimberley district. Both are pilot projects in an area where formerly only beef cattle could be supported.

As a power generation project, the Snowy Mountains Scheme will supply 2,500,000 kilowatts of peak load power. One major power station, the Tumut 1, supplying 320,000 kilowatts, has already been completed at a cost of between £A55 million and £A60 million. The second, Tumut 2, supplying 280,000 kilowatts, is due to be finished in 1962, at a similar cost. Both these stations are deep underground and their construction has entailed large-scale excavation and tunnelling work.

Thermal Power Stations

Four large thermal power stations are being built in New South Wales at a total cost of £A126 million. The largest is at Vales Point, Lake Macquarie, near Newcastle, and consists of two 200,000 kilowatt turbines and one 275,000 kilowatt turbine; they will come into operation progressively in 1963, 1964 and 1965. Also on Lake Macquarie is the Wangi power station where three 50,000 kilowatt and two 60,000 kilowatt turbines are already running and another 60,000 kilowatt turbine will come into operation this year. At Wallerawang, near Lithgow, four 30,000 kilowatt turbines are already working and a further two 60,000 kilowatt turbines will start this year and next. At Tallewarra, near Wollongong, four 30,000 kilowatt turbines are running and two 100,000 kilowatt turbines will start this year and next year. All these power stations are on coalfields within a 100-mile radius of Sydney. Despite the important contribution of the Snowy Mountains Scheme, thermal stations will remain the main source of power because of the vast reserves of coal.

In Victoria, preliminary work has started on a new 1,200,000 kilowatt power station at Hazlewood on the brown coalfields. It is to be completed in stages by 1971. The cost of the project is estimated at about £A100 million, plus a further £A23 million for transmission. Ultimately the station will consume 13 million tons of brown coal annually which will be delivered by conveyor belt from the open-cut mine at Morwell. Another station is already in partial operation on the coalfields at Morwell. This station will produce 170,000 kilowatts by 1963. Also on the coalfields at Yallourn a station of two 120,000 kilowatt turbines will be working by 1962.

In North Queensland the Mount Isa Mines Ltd. runs the largest privately operated power station in Australia. This is a thermal station of two 30,000 kilowatt turbines, built by the company at a cost of £A7 million.

Transport

In the field of transport, improvement and modernisation is being carried out in railways, roads, shipping facilities and airports. A major project concerns the correction of an error made in Australia's earlier development; each State of Australia has developed from a separate colony which decided on different rail gauges. Thus New South Wales has a rail gauge of 4ft. 8½in. and Victoria a 5ft. 3in. gauge. One of the most costly railway projects in the country is the making uniform of the gauge between Sydney and Melbourne. At a cost of £A11,500,000 this involves laying a 4ft. 8½in. track from Melbourne to Wodonga, a distance of 189 miles. On the way 195 bridges have to be built and 411 culverts cut out. This job should be finished by 1961.

Another big job is the rebuilding of the 603-mile track between Mount Isa in North Queensland and Townsville on the coast. This project will cost £A30 million and will allow the copper, silver-lead and zinc mines at Mount Isa to increase their output substantially. It will be completed in 1964.

In the Northern Territory, the reconstruction of 1,232 miles of the Stuart and Barkly Highways has begun. This project, which will cost £A3 million, is designed to increase commerce and promote development in the centre of Australia.



Pictured here is one of the new Priestman Lion III crawler-mounted ¾ cu. yd. excavators at work at Arlanda Airport, Stockholm. It is one of a fleet of 10 Priestmans owned by Swedish contractor F. A. Sture Gustavsson

ROAD TRAFFIC SIGNS

County Surveyors to Consider Suitability

THE County Surveyors' Society are preparing a comprehensive report on the suitability or otherwise of existing road traffic signs.

This follows a suggestion from Gloucestershire County Council, with which the Society expressed agreement, that the present authorised "No Waiting" signs are of poor design.

The society have recommended that the "No Waiting" signs illustrated in diagrams 316, 317, 318, 319 and 321 of the Traffic Signs Regulations and General Directions, 1957, be discontinued and replaced by the standard International Sign recommended for adoption in Article 35 of the United Nations Conference on Road and Motor Transport held at Geneva in 1949.

They have also recommended that intermediate signs when required should conform to the same design but should be of reduced dimensions to give an overall diameter of 0.2 metres, and that no reference should be made in the Regulations to the method of mounting of the sign, thus allowing freedom of choice to the highway authority to select the most appropriate form, namely: pole, wall or bracket, to meet the local circumstances.

Two other recommendations are (a) that where unilateral waiting is permitted on alternate days the standard Geneva sign should be adopted, the diagonal red bar being attached to the sign by means of a suitable locking device and transferred as required from the signs on one side of the road to those of the opposite side, and (b) that for limited waiting the present authorised sign (illustrated in diagram 320 of the Regulations) be continued subject to the amendment that the words "in any hour" be omitted and replaced by an indication of the precise period during which the limitation applies.

The Society have considered the problem of the large number of signs which are necessary when a substantial part of any area is covered by "No Waiting" regulations and have come to the conclusion that a reduction in the number of signs which are necessary in these circumstances is best achieved by the designation of the area concerned as a "No Waiting" zone and indicated by the erection at the entries to the area of signs prohibiting waiting within the area except at authorised and signed parking places.

Effect of Adverse Comments

They are aware that as recently as two years ago they recommended the County Councils Association to raise no objection to the current authorised signs.

In making their present recommendations they have borne in mind in the first place the extent of the adverse comments which have been made on the appearance of these signs, secondly the difficulty in defining clearly under the present system the extent of the restriction, and finally the desirability of conforming with international usage.

In their consideration of the appearance of these signs the Society have come to the conclusion that the need for conspicuous "No Waiting" signs arises very largely from the great number of advertisement signs and other distractions which are to be found in streets where "No Waiting" signs are most commonly erected, and in their view any steps to reduce the number of such distractions are to be welcomed as making it easier for the motorist to observe authorised traffic signs.

MITCHELL'S THIRD LOCH AWE CONTRACT

THE Mitchell Construction Co., Ltd., Peterborough, have been awarded a third contract by the North of Scotland Hydro-Electric Board in connection with the Loch Awe scheme.

The contract involves the construction of a concrete gravity dam across the outlet of Loch Nant, 1,150ft. long by 80ft. high, together with overflow spillway and channel, the construction of access roads and other ancillary works.

The company are already carrying out contracts involving the construction of the Loch Awe Barrage and the building of a power station at Inverawe. Total value of the three contracts is over £770,000.

Civil engineering consultants for the Nant section of the Awe scheme are Babtie, Shaw and Morton of Glasgow.

INSTITUTE OF QUANTITY SURVEYORS ELECT OFFICERS

At the recent annual general meeting of the Institute of Quantity Surveyors the following officers were elected: President—Clarence E. Smart; immediate past-president—J. Lester; vice-presidents—H. T. Burke (London); E. G. Cornish (London); R. K. Crouch (Warwickshire); H. G. Douglas (Hampshire); W. J. Martin (Sussex); R. Beswick Shaw (Yorkshire); and S. W. Spencer (Lancashire).

Executive Members in Council—D. Bilham, J. Youdan Briggs, T. R. Carpenter, E. W. Cooper, H. Fulford, J. Gregg, H. Vincent Mace, F. Smith, F. Biscoe-Taylor, R. E. Biscoe-Taylor, W. R. Turner and R. D. Wood.

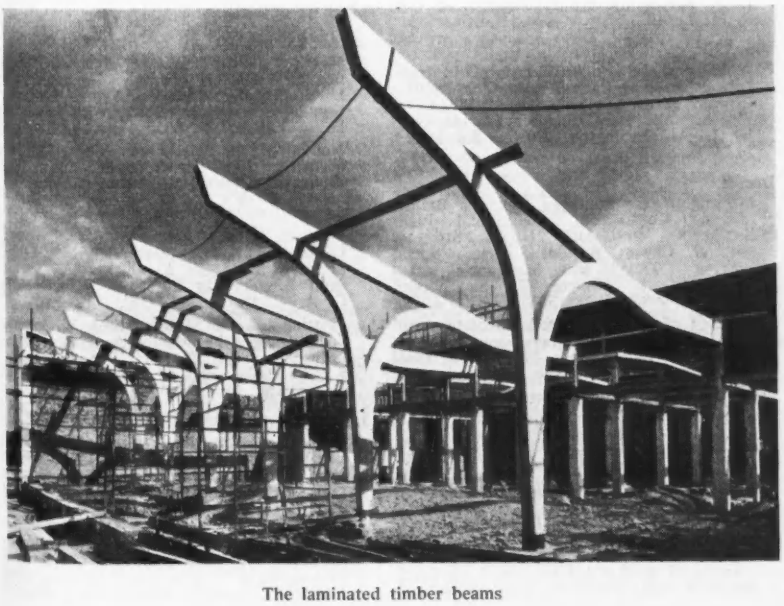
Area Members in Council—(1) E. E. G. Cummins, (2) T. G. Orange, (3) A. E. Bebbington, (4) R. K. Crouch, (5) D. Ransome, (6) J. Fogg, and (7) J. F. Hornsby.

UNUSUAL TIMBER BEAMS IN WAKEFIELD WAREHOUSE

LAMINATED timber beams of an unusual construction are a feature of a new warehouse which is being erected at Wakefield for Empire Stores, Ltd.

The frames are 34ft. overall, supported at the rear on a steel joist, the front cantilevering 10ft. over the laminated timber supports, which are 13ft. 6in. high. The top horizontal member is cranked.

The support is formed of two curved laminated members which are bolted and glued together to form the Y support. The extensions of the arms of the Y are continued in the line of the cranked top member to increase its depth and give the profile, and these are in turn bolted and glued to the laminated cranked top member. The foot of the support is fitted into a flush steel shoe.



The laminated timber beams

The six frames are 6in. wide at 10ft. 8in. centres. Roof construction will be 6in. by 2in. purlins with 2in. wood wool slabs, cement screed and built-up felt roofing.

Michael Egan and Partners, 297 Oxford Street, London, W.1, are the architects for the building, and the contractors are Sir Alfred McAlpine and Son, Ltd., 29 Waterloo Road, Wolverhampton.

Rainham Timber Engineering Co., Ltd., supplied the beams.

BOWATER BOARD PROMOTE DESIGN COMPETITION

A competition for the design of a hotel unit by architects and architectural students in the Republic of Ireland and in Northern Ireland has been promoted by Bowaters Irish Wallboard Mill, Ltd.

The unit to be designed consists of a double bedroom, a bathroom and a living room convertible as an extra bedroom and the competitors will use Bowater board both in structural and decorative applications and in the design of built-in furniture and fitments. Awards, totalling 175 guineas, are to be spent primarily on foreign travel during 1961. The assessors are Mr. Kevin Barry, B.Arch., M.R.I.A.I., A.R.I.B.A., technical manager of the Irish Tourist Board; Mr. W. Edward Brady, F.R.I.A.I.; and Mr. A. D. Devane, B.Arch., M.R.I.A.I., A.R.I.B.A., A.M.T.P.I.

The competition will close early in December and an exhibition of the designs, with a unit built to the first-prize winner's plans, will be held in the New Year. Detailed conditions of the competition are available from The Building Centre, 17 Lower Baggot Street, Dublin.

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

Baker Bros. (Glamorgan), Ltd., 53 Bridgend Road, Aberkenfig, Glam., builders. £2,000. Directors: Henry M. Baker, 53 Bridgend Road, Aberkenfig, Glam. (chairman); David T. D. Baker, Police Houses, Brackla Site, Bridgend.

F. G. Miles and Sons, Ltd., 28 West View Road, Keynsham, Bristol, builders. £3,000. Directors: Fredk. G. Miles, 28 West View Road, Keynsham; Douglas G. Miles, 128 Bath Road, Keynsham.

Rickard Construction Co., Ltd., Greenfields, Laund Hill, Belper, Derbys. builders. £1,000. Directors: Geoffrey W. Rickard and Beryl G. Rickard, Greenfields, Laund Hill, Belper.

D. Lumsden, Ltd., 40 Tonbridge Road, Maidstone. To carry on business of earth-moving, etc. £2,000. Directors: David N. M. Lumsden and Kathleen A. E. Lumsden, Little Orchard, Collier Street, Marden.

John Reed and Co. (Building), Ltd. £100. Directors: John E. Reed and Eileen E. Reed. Subscribers: Stanley H. Lucas and Francis A. Dean, 6 Surrey Street, W.C.2.

R. Pearce (Builders), Ltd., 86 Broomfield Road, Chelmsford. £5,000. Directors: Robin S. Pearce, Little Sweynes, High Road, Hockley; Harry D. Keen and Eunice M. Keen, Butlers, Broomfield.

Parkside Building and Development Co., Ltd., Abford House, Wilton Road, S.W.1. £100. Directors: Arthur L. R. Cork and Dorothy F. Cork, 14 Palace Green, Addington, Surrey.

T. A. Price, Ltd., 5 Posbrook Cottage, Meon Road. Titchfield, Hants, builders and contractors. £100. Permanent directors: Thomas A. Price and Joyce E. Price, 5 Posbrook Cottage, Meon Road, Titchfield, Hants.

James Massey and Sons (Contractors), Ltd., builders. £5,000. Directors: To be appointed by subscribers. Subscribers: Henry B. Britcliffe, Forest House, Fence, near Burnley; Eric Hodgkinson, 288 Whalley Road, Accrington (accountants).

Owen Kleine Structures, Ltd., Booth Street, Darlaston, Staffs., builders. £25,000. Directors: Alfred G. B. Owen, C.B.E., The Highway, Newhall, Sutton Coldfield; Frank R. Barker, Craddock Ash, Lloyd Hill, Stourbridge Road, Penn, Wolverhampton; Anthony R. Wright, Harry L. E. Bramer and Norman Pearson.

Field and Field, Ltd., 7 Castle Street, Bridgwater, builders. £5,000. Directors: Wm. H. Field, Esther E. Field and Alan C. Field, all of Pax, Stoford Green, Yeovil.

Hi-Reach Trucks, Ltd., Lyndale Chambers, Warwick Road, Coventry, reach trucks, straddle trucks, etc. £10,000. Directors: John Twiggins and Agnes B. Twiggins, 42 Knoll Drive, Coventry.

N. Ternent and Son, Ltd., Old Mill Lane, Leeds, 10, precast building blocks, etc. £1,000. Directors: Norman Ternent and Mrs. Mary K. Ternent, 9 Colwyn Place, Leeds, 11.

N. L. Chambers, Ltd., builders. £100. Directors: Norman L. Chambers and Mrs. Betty M. Chambers, 420 Castle Lane, Bournemouth.

Edgeborough Building Co., Ltd. £5,000. Directors: Not named. Subscribers: Jack Channing, Tadmar, Avenue Road, Cranleigh, Surrey; Herbert J. T. Channing, 44 Warren Road, Guildford, Surrey (company director).

Picon, Ltd., builders. £10,000. Directors: To be appointed by subscribers. Subscribers: Alma Griffiths, 38 Hillfield Avenue, N.W.9 (clerk); Olive T. Jordan, 18 Priory Hill, Wembley, Middx. (clerk).

R. and S. Construction Co., Ltd., 1 Frodsham Street, Chester, contractors. £1,000. Permanent directors: George C. Shone, "Oak Cottage," Picton Gorse, Chester; John E. Whibberley, Irving Way, Peel Hall Lane, Ashton, near Chester.

Ramun, Ltd., 16 Union Court, Old Broad Street, E.C.2, builders. £100. Directors: Mary L. Mundy and Hilary A. E. Mundy, Chipstead House, Chipstead, Kent; Mrs. Stefka Rayner, 7 Holmesdale Road, Sevenoaks.

C. Beard and Son, Ltd., 13 Liverpool Gardens, Worthing, builders and contractors. £100. Directors: Vernon S. Cambridge and Joyce E. Cambridge, Almora, Ilex Way, Goring-by-Sea, Sussex.

R. E. Avery and Co., Ltd., The Firs, Station Road, Bledlow, builders. £1,000. Directors: Ronald E. Avery and Ethel M. Avery, Station Road, Bledlow; Donald H. North, address not stated.

T. H. Hackett (Builders), Ltd., 60 Cumberland Street, Hull. £500. Directors: Thomas H. Hackett, 55 Milne Road, Belton Grange Estate, Hull; George Smith, 12 Bideford Grove, Greatfield Estate, Hull.

R. Berriman, Ltd., Millers Hill, New Herrington, Houghton-le-Spring, builders. £5,000. Directors: Ronald Berriman and Mrs. Ivy Berriman, The Gables, Sunderland Road, Newbottle, Houghton-le-Spring.

D. Shaw (Poynton), Ltd., 7 Brazennose Street, Manchester, 2, builders and contractors. £100. Director: Dorothy T. Shaw, 223 Chester Road, Poynton, near Stockport.

Prevett and Tollett, Ltd., 17 Great James Street, W.C.1, builders. £2,000. Directors: George J. Prevett, 86 Exeter Road, Southgate, N.14; Alfred Prevett, 75 Palmerston Crescent, Palmers Green, N.13; Irene M. Lambert, 17 Great James Street, W.C.1.

Prosho and Rose, Ltd., Bank Chambers, 23 Borough, Hinckley, Leics., builders. £2,500. Permanent directors: Ernest Prosho, 24 Alexander Avenue, Earl Shilton, Leics.; Harold Rose, "Greenways," Land Society Lane, Earl Shilton, Leics.

Bailey and Smith, Ltd., 35 Wood Street, Wolverhampton, builders. £100. Directors: Henry F. Bailey, 41 Bushbury Road, Fallings Park, Wolverhampton; Kenneth G. Smith, 35 Wood Street, Park Village, Wolverhampton.

Greenly Construction Co., Ltd., public works contractors. £100. Permanent directors: Reginald J. Greenly, 217 Penn Road, Wolverhampton; John G. Greenly, 15 Tynedale Crescent, Ettingshall Park, Wolverhampton.

Dolan and Ball (Builders), Ltd., 37 Hoghton Street, Southport. £1,000. Permanent directors: John Dolan, 1 Linaker Street, Southport; James Ball, 68 Stamford Road, Birkdale, Southport.

Cambria Builders, Ltd., 26 Alban Square, Aberayron. £50,000. Directors: John W. Morgan, Cwrt Mawr Farm, Llangeitho, Cards.; Robert W. Lewis, Maes-y-Bryn, Capel Bangor, Aberystwyth; Vivian Lewis, 16 Second Avenue, Penparcau, Aberystwyth; Alwyn G. Morgan and James S. Kitt.

Edward Eager and Son, Ltd., 119 Fairview Road, Cheltenham, builders. £2,000. Directors: Edward M. Eager, Edith F. M. Eager and Timothy E. Eager, all of Willow Cottage, Bishops Cleeve, Cheltenham.

Grader Hire, Ltd., 12 Burleigh Street, W.C.2, manufacturers of and dealers in bulldozers, dumpers, etc. £100. Directors: Clive J. S. Barford, 63 Cadogan Place, S.W.1; George L. Mitchell, 48 Lindisfarne Avenue, Leigh-on-Sea, Essex.

Jannock (Paving), Ltd., 14 Bryanston Street, W.1, paving contractors, etc. £100. Directors: Geo. E. Simpson, 56 Beaufort Avenue, Kenton, Harrow, Middx.; Anthony J. Harrington, 3c Lancaster Drive, N.W.3.

Jack Snell, Ltd., builders. £500. Directors: Lambert H. Lee, Ty Mari, Heolgerrig Road, Merthyr Tydfil, Glam.; John H. Snell, 19 Mitchell Crescent, Merthyr Tydfil.

Pickard and Co. (Builders), Ltd., 10 Dorrington Street, Leeds, 2. £1,000. Directors: John E. Pickard and Mrs. Barbara M. Pickard, 74 Pannal Ash Road, Harrogate; Harry Taylor, 13 Upland Grove, Leeds, 8.

Pinden Building Supplies and Demolition Contractors, Ltd., Rats Castle, Green Street Green Road, Dartford, Kent. £1,000. Directors: James Atkins, Rats Castle, Green Street Green Road, Dartford; Henry G. Page, 46 Thornsbeach Road, S.E.6.

FOR THE DIARY

Nov. 18

Meeting of the South East Branch of the Institute of Quantity Surveyors, Brighton Technical College. 7.15 p.m. Film show.

Nov. 21

Yerbury Foundation lecture at the R.I.B.A., 66 Portland Place, London, S.W.1, at 6 p.m. "The Relation Between Design and Speed in Building", by Raymond Mais, F.I.O.B., and Phillip Bennett, M.A., F.R.I.B.A. Chairman: Cyril Sweett, F.R.I.C.S.

Nov. 22

Joint meeting of the Institution of Civil Engineers and the Institution of Electrical Engineers at Great George Street, Westminster, S.W.1. "The Aswan Hydro-electric Scheme," by V. Furuskog and G. Kennedy.

Nov. 24

Meeting of the London branch of the Contractors' Mechanical Plant Engineers, Redhouse Hotel, Redbridge, Wanstead. 7.30 p.m. Open Forum.

Meeting of the Institution of Civil Engineers at Great George Street, Westminster, S.W.1. Informal discussion—the Operation of the General Conditions of Contract for Works of Civil Engineering Construction—introduced by A. M. Holbein.

Nov. 26

Annual dinner and dance of the London branch of the Institution of Plant Engineers, Waldorf Hotel, London, 6.30 p.m.

Nov. 28

Meeting of the London branch of the Faculty of Building, Building Centre, London, 7 p.m. Lecture by Mr. E. J. Fisher, M.I.Struct.E., former district surveyor, St. Marylebone.

Nov. 29

Meeting of the Institution of Civil Engineers at Great George Street, Westminster, S.W.1. Symposium on management. Speakers include Sir Leonard Owen, Prof. J. F. Baker, Sir Ewart Smith and Col. S. M. Lovell.

Nov. 30

Meeting of the London Branch of the Institute of Building Estimators at The Bedford Corner Hotel, Bayley Street, W.C.1, at 7 p.m. Address: "Cylinder Foundations," by J. A. Derrington, D.I.C., B.Sc.(Eng.), M.I.C.E.

Dec. 1

Meeting of the Southern Counties Branch of the Contractors' Mechanical Plant Engineers, Woodstock Hotel, Stonecot Hill, N. Cheam, Sutton, Surrey. Social evening. Tickets from hon. social secretary, Mr. J. Nissen, 74 Sandbourne Avenue, Merton Park, S.W.19.

Meeting of the Reinforced Concrete Association at 11 Upper Belgrave Street, London, S.W.1, at 6 p.m. Paper: "Reinforced Concrete Construction in the Coal Industry", by C. A. C. Davies.

Dec. 2

Meeting of the Institution of Highway Engineers at 11 Upper Belgrave Street, London, S.W.1, at 5.30 p.m. "Lessons Learned on the Design and Construction of Motorways—(II) From the Consultant's Angle" by R. F. Earley B.Sc. M.I.C.E.

Dec. 6

Meeting of the London branch of the Institution of Plant Engineers, Royal Society of Arts, John Adam Street, W.C.2, 7 p.m. "Civil engineering problems in tall buildings", by Sir Thomas Bennett, K.B.E., F.R.I.B.A.

Meeting of the Institution of Civil Engineers at Great George Street, Westminster, S.W.1. "A Unit Hydrograph Study with Special Reference to British Catchments," by J. E. Nash.

Dec. 8

Meeting of the Institute of Sewage Purification, Friends House, Euston Road, London, N.W.1, 6.30 p.m. Paper. "Composition of Sewage and Sewage Effluents." by H. A. Painter, M. Viney and A. Bywaters.

Annual dinner and dance of the Midlands branch of the Contractors Mechanical Plant Engineers, Town Hall, Sutton Coldfield.

Dec. 13

Meeting of the Institution of Structural Engineers at 11 Upper Belgrave Street, London, S.W.1, at 6 p.m. "The Structural Engineer in the Coal Industry," by C. A. C. Davies, M.I.C.E.

Meeting of the Illuminating Engineering Society at the Federation of British Industries, 21 Tothill Street, London, S.W.1, 6 p.m. Paper "Visual Problems on Motorways" by J. M. Waldram.

Dec. 15

Meeting of the Institution of Structural Engineers at 11 Upper Belgrave Street, London, S.W.1, at 6 p.m. "The London Traffic Problem." by Donovan H. Lee, B.Sc. (Eng.), M.I.C.E.

Jan. 28, 1961

Annual dinner and dance of the London branch of the Contractors' Mechanical Plant Engineers, Criterion Restaurant, Piccadilly.

Current Constructional Activities

PROJECTS • CONTRACTS • AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING

(See also Housing Schemes)

Aberdeen.—E.C. have approved modified plans for a new technical college to be built at Spring Garden for City Council. Estimated cost £1,128,684.

Accrington, Lancs.—B.C. recommended to approve scheme for provision of improved office accommodation in the Street Lighting Department. Estimated cost £3,400.

Acton, Middx.—B.C. recommended to approve plans and invite tenders for old people's dwellings comprising two-storey block of six flats at 23 Rosemont Road, estimated cost £12,500; five-storey block of 20 flats and a two-storey block containing one flat, a drying room and a recreation room at 13 Bedford Road, £41,500; three-storey block of 18 flats at Creswick Road, £38,700.

Ashford, Kent.—U.D.C. have approved in principle scheme for the provision of a slaughterhouse.

Bangor, Caerns.—B.C. recommended to approve site on land between Glynne Road and Beach Road for the erection of new swimming baths.

Banstead, Surrey.—Co. Children's Committee have submitted to Home Office for approval, scheme for erection of a house for the headmaster and new kitchen, dining room and timber store at Banstead Hall Approved School during 1961-62. Estimated cost £15,750.

Barrow-in-Furness, Lancs.—Borough Surveyor to be authorised to prepare plans for erection of a new centralised transport garage.

B.C. recommended to approve plans for assembly hall and alterations to toilet accommodation at St. James' School, Blake Street, for E.C.; erection of 14 lock-up garages at Earnse Bay caravan site; Town Planning approval in principle for erection of Civil Defence headquarters in Abbey Road.

Bath, Som.—City Council recommended to approve for submission to Home Office for approval plans for the construction of new central police headquarters at Manvers Street. Estimated cost £60,000.

Beccles, Suffolk.—B.C. recommended to prepare scheme for garages at St. Mary's, Banham Road and Goose Green sites.

Belfast.—City Council recommended to approve plans for reconstruction of premises in Donegall Place for Bank of Ireland.

Bexley, Kent.—B.C. to include in the 1961-62 programme scheme for the erection of a lodge at Danson Park. Estimated cost £2,500; to proceed with scheme for the erection of a youth centre at Lovel Avenue, Welling; appoint C. John Mann and Sons, 25 Bedford Row, London, W.C.1, as quantity surveyors for the provision of additional accommodation at the Westwood County Secondary Schools.

Billingham, Dur.—Billingham Community Association recommending extensions to Community Centre at a cost of £12,000.

Bolton, Lancs.—B.C. recommended to approve plans for erection of the St. Cuthbert's R.C. Secondary Technical School, Old Kiln Lane for the trustees of the R.C. Diocese of Salford.

Braintree, Esseex.—Colchester Hospital Management Committee propose scheme for adaptions to wards 1 and 2 at Black Notley Hospital. Esimated cost £14,500.

Brighton, Sussex.—Working drawings are being prepared for the erection of showrooms, offices, flats and workshops at 90-96 Preston Road and 1-5 Springfield Road, for Hartley and Midgley, Ltd. J. A. Wells-Thorpe, 26 Regency Square, Brighton 1, is the architect; McConville Fraser and Symonds, 7a Duke Street, Brighton, are the quantity surveyors; R. T. James and Partners, 5 Lower Grosvenor Place, London, S.W.1, are the structural consultants for the scheme.

Bristol.—City Council recommended to lease land in Clothier Road, Brislington Trading Estate, to John Dickinson and Co., Ltd., 24 Stokes Croft, for the erection of warehouse premises.

Broadstairs, Kent.—Co. E.C. recommended to approve the provision of a laboratory, classroom and 3 preparation rooms at Dane Court Technical School for Girls. Estimated cost £22,000.

Bromley, Kent.—B.C. recommended to approve in principle scheme for the provision of public conveniences at The Hill Car Park; approve sketch plans and prepare detailed plans for 10 garages at Pembury Close. Estimated cost £1,800; to invite tenders for the erection of the Southborough Branch Library.

Buckinghamshire.—M.E. has included Bedgrove County Junior School and extensions to Aylesbury Grammar School in the building programme for 1961-62, for Co. E.C.

Burnley, Lancs.—General Purposes Committee have approved the adaptation of the former cold stores adjacent to public abattoirs for disinfestation station, estimated cost £8,200.

Burton-on-Trent, Staffs.—B.C. recommended to invite tenders for the provision of a block of eight shops (with fittings) and eight two-bedroom flats, 10 garages and road works fronting Rosliston Road at Edge Hill housing estate.

Borough Architect has prepared a sketch plan for a residential home for the ailing aged at Stapenhill Road.

Buxton, Derbys.—B.C. recommended to approve plans for the provision of a building on the flat roof above the cafeteria to house a licensed bar, at the Pavilion Gardens. Estimated cost £11,000.

Cambridge.—East Anglian Regional Hospital Board recommended to appoint Lea, Milner and Wardley, 4 Market Hill, Huntingdon as architects for construction of flats for three registrars, and servery, dining and sitting rooms for medical staff, house for matron, covered way between cardiac and surgical units and two houses for registrars at Papworth Hospital.

Canterbury, Kent.—M.E. have approved scheme for the first instalment of Canterbury Technical College for E.C. Estimated cost £334,779.

Cardiff.—City Council to submit to Home Office for approval sketch plans for the rebuilding of Canton Police Station and erection of new station at Ely. Estimated cost £38,750 and £37,000 respectively.

Carshalton, Surrey.—C.C. recommended to approve scheme for the erection of an old people's home at Wandle Mead during 1961-62. Estimated cost £50,000.

Ceiriog, Denbighs.—R.D.C. have approved scheme for the renovation of 74 houses at Chirk Green.

Chanctonbury, Sussex.—R.D.C. have approved scheme for the erection of 15 concrete garages at Staples Barn Estate, Henfield.

Cheltenham, Glos.—B.C. recommended to approve plans for extension of 6,000 sq. ft. to industrial premises at Clyde Crescent, for Walker Crossweller and Co., Ltd.; erection of R.C. secondary school at Arle Road, for the Diocesan Trustees of Diocese of Clifton.

Chester.—Liverpool Regional Hospital Board have approved adaptations at Moston Military Hospital to provide accommodation for 330 psychiatric patients from Deva Hospital. Estimated cost £76,215.

Chester-le-Street, Dur.—Plans are being prepared for premises for Lumley Workmen's Club. The architect is J. M. Angus, 3 Gallowgate, Newcastle upon Tyne.

Chichester, Sussex.—City Council to prepare and submit for approval, scheme for the development of 105 St. Pancras and properties adjoining; recommended to approve in principle plan prepared by Sir Hugh Casson, architect, 35 Thurloe Place, London, S.W.7, for the rebuilding of 1 and 2 South Street, including the erection of an arcade at the junction of South Street and West Street.

Chippenham, Wilts.—B.C. recommended to prepare scheme for the improvement of traffic roads and additional car parking facilities including the provision of a roundabout at The Folly crossroads.

Chorley, Lancs.—B.C. recommended to approve plan submitted by Ribble Motor Services, Ltd., 61 Union Street, for reconstruction of existing bus station.

Clayton, Yorks.—West Riding C.C. recommended to approve reorganisation and upgrading of main block at Thornton View. Estimated cost £20,110.

Cleckheaton, Yorks.—West Riding C.C. recommended to approve the provision of a drill yard and tower, involving the demolition of Wilton House, at Divisional Headquarters Fire Station. Estimated cost £4,975.

Conway, Caerns.—R. Colwyn Foulkes, architect, Merton Place, Pwllycrochan Avenue, Colwyn Bay, has prepared plans for large-scale improvements and extensions at Oakwood Park Mental Hospital, for the Welsh Regional Hospital Board. Estimated cost £1m.

Cornwall.—M.E. have approved scheme for the erection of a new women's and catering block at the Cornwall Technical College, for Co. E.C. Estimaed cost £110,722.

Co. E.C. have approved the provision of an animal husbandry classroom-laboratory at the Cornwall Technical College. Estimated cost £4,500.

Crawley, Sussex.—U.D.C. have approved in principle scheme for the provision of a sports arena on the site of the Town Sports Centre, at Three Bridges.

Croydon, Surrey.—T. Mortimer Burrows and Partners, Mortimer House, 230-236 Lavender Hill, London, S.W.11, are the architects and surveyors for erection of motor vehicle repair workshop, stores and offices at Carlton Road, for Hubert Dees, Ltd., 15-19 Brighton Road.

Croydon, Surrey.—B.C. recommended to apply for sanction to borrow £5,000 for improvements (stage one) to Coombe Lodge Playing Fields, comprising the construction of changing accommodation and site works; approve scheme subject to M.E. approval and apply for sanction to borrow £4,900 for the adaptation of Duppas Junior Mixed School, Goodwin Road, Duppas, to form kitchen and dining room; have approved and submitted to Ministry for approval outline application for an old people's home at Monks Hill Estate. Estimated cost £65,000.

B.C. recommended to approve schemes for the erection of shop with showroom and offices with living accommodation over at 316-320 Whitehorse Road, for H. Search, 309 Whitehorse Road; reconstruction of departmental stores at 16-18 Church Passed Street and site of The Hippodrome, Crown Hill, for British Home Stores, Ltd., Marylebone House, 129-139 Marylebone Road, London, N.W.1; subject to conditions, erection of showrooms and offices at 35-43 Brighton Road, for Commercial & Industrial Structures, Ltd., 77 George Street, Portman Square, London, W.1; motor vehicle repair workshops, stores and offices at Carlton Road, for Hubert Dees, Ltd., 15-19 Brighton Road, Croydon; 7 shops with living accommodation over at 36, 37, 38, 39, 40 and 41 High Street, South Norwood, for Marwin Securities, Ltd., (c/o Newman, Levinson & Partners, 9 Mansfield Street, London, W.1); factory and offices at 73, 75 and 77 Lansdowne Road, for Mechanisms, Ltd., Gyro Works, George Street, Croydon; demolition of existing buildings at 73, 75 and 77 London Road and erection of supermarket with offices over, for Southern Shop Developments Ltd., 12 St. George Street, Hanover Square, London, W.1.

Devonshire.—Co. E.C. have approved schemes for the erection of a youth cabin on Dartmoor and a youth centre at Tavistock. Estimated cost £13,000 and £33,000 respectively.

Derbyshire.—C.C. recommended to approve scheme for building ruins, intended to represent houses and factories in varying states of damage after an air attack, with two other buildings, near the County Civil Defence Headquarters, South Darley. Estimated cost £25,450.

Co. Fire Service Committee propose the erection of new fire stations at Alfreton, estimated cost £17,000, Ilkeston, £50,000, Melbourne, £14,000 and Chapel-en-le-Frith £14,000, during 1961-62.

Co. E.C. are to erect new branch libraries at Allestree, Bakewell, Breadsall, Hackenthorpe, North Wingfield, Shirebrook and Woodville during 1960.

Doncaster, Yorks.—B.C. recommended to approve the erection of two units of food stalls in the Market Hall. Estimated cost £3,900.

M.E. have approved provision of kitchens at Robin Infant School and Our Lady Mount Carmel R.C. Primary School; final plans for High Melton Training College and sketch plans for kitchen at Robin County Primary School.

Dudley, Worcs.—B.C. recommended to submit to M.E. for approval, sketch plans for the Holly Hall Secondary Modern School.

Durham.—C.C. approved sketch plans for a branch library at Boldon Colliery.

Ealing, Middx.—B.C. recommended to approve the erection of 37 garages at the open space adjoining canal, Elm Tree estate; scheme for 30 garages at Murray Road.

B.C. recommended to approve plans for construction of a youth wing at Walford Secondary School, estimated cost £30,208; provision of a servery at Selborne Secondary School and improvement of existing wash-up unit at Selborne Primary School, £2,900; erection of a brick wall along two sides of the boys' playground at Vincent Secondary School, £1,050; extension of the woodwork store at Brentside Secondary Boys' School, £700.

Ealing, Middx.—Co. E.C. recommended to approve erection of a centre for the Ealing, Olfield and Woodend Community Association. Estimated cost £20,000.

Ealing, Middx.—C.C. recommended to approve provision of additional staff accommodation and sanitary facilities at Elfin Grove Nursery. Estimated cost £3,014.

Eastbourne, Sussex.—B.C. recommended to approve the invitation of tenders during December for work commencing next March on the Congress Theatre, plans by Bryan and Norman Westwood and Partners, architects, 21 Suffolk Street, London, S.W.1; prepare, subject to Ministry approval, scheme for the construction of a new training centre for mentally subnormal children, in a single building; prepare scheme for alterations to Chalk Farm House. Estimated cost £1,792.

Edinburgh.—Dean of Guild Court have approved new offices at 130-132 George Street for South of Scotland Electricity Board. Estimated cost £350,000.

Planning committee have approved in principle plans to extend Edinburgh College of Art.

Edmonton, Middx.—B.C. recommended to prepare outline plans for improvements to Barrass Stadium; modified plans for the erection of a pavilion at Church Street Recreation Ground; appoint A. C. Mann, 79 Gloucester Road, London, S.W.7, as consulting engineer for the erection of a practical training centre at Claverings Industrial Estate.

Ely, I. of E.—East Anglian Regional Hospital Board recommended to appoint A. E. King, 1a Lynn Road, Ely, as architect for the provision of improved toilet accommodation for male dayroom, additional toilets for nursing staff and sluice accommodation for Bellevue Ward at Tower Hospital.

Enfield, Middx.—North Middlesex Area Planning Committee have approved schemes for the proposed erection of a factory extension for research, offices, storage and welfare accommodation at Bridge Works, Southbury Road, for Belling and Co., Ltd.; subject to conditions, for an office, research and welfare building at 540 Great Cambridge Road, for Belling and Lee, Ltd.

Enfield, Middx.—C.C. recommended to approve the erection of a new general purpose building at Plumridge Farm. Estimated cost £1,675.

Essex.—Forest Division Education Executive have approved scheme for extensions to Loughton County High School. Estimated cost £88,500.

Gateshead, Dur.—C. Solomon, 30 St. Mary's Place, Newcastle upon Tyne, is the architect for showrooms at High Street for Simmons (Furnishers), Ltd., Clayton Street, Newcastle.

Glasgow.—Planning sub-committee have approved the erection of a store at 43-51 Argyle Street for Morrison's Associated Companies, Ltd., 118 Howard Street, Glasgow, C.1. Estimated cost £100,000.

Planning committee have approved plans prepared by J. L. Gleave, architect, 10 Lynedoch Crescent, Glasgow, for Glasgow University's proposed development.

Godalming, Surrey.—B.C. recommended to prepare plans and invite tenders for the erection during 1961 of a new Civil Defence Training Centre at The Wharf.

Town Planning Committee have approved scheme for 105 detached garages at Milton's Field, Primrose Ridge, for Davis Estates, 346 Kilburn High Road, London, N.W.6.

Godstone, Surrey.—C.C. recommended to approve scheme for provision of a civil defence training centre at Potters Sandpit, Limpsfield. Estimated cost £5,400.

Great Yarmouth, Norfolk.—East Anglian Regional Hospital Board recommended to appoint Philip Pank and Partners, 15 The Close, Norwich as quantity surveyors for improvements to general operating theatre and modification to female ward accommodation at Great Yarmouth General Hospital.

Guildford, Surrey.—B.C. recommended to proceed with preparation of scheme for a youth centre building on site at Cabell Road, Park Barn; approve plans for a building combining a youth centre and sports pavilion at Stoughton Recreation Ground; approve site of existing cattle market at Woodbridge Road for new administrative offices.

Halifax, Yorks.—Tenders are to be invited in the near future for erection of a vehicle repair shop, showroom, offices, and petrol filling station, Church Street and New Road, for the Halifax Motor Co., Ltd. Walsh, Wilkinson & Coutts, architects, 10 Harrison Road, Halifax.

Hambledon, Surrey.—C.C. recommended to approve scheme for the provision of new civil defence training centre at Oxted Green, Milford. Estimated cost £5,584.

Harrogate, Yorks.—B.C. recommended to approve plans for erection of a two-storey office block at Grove Park Terrace, for James Coombes and Co., Ltd.

Haverfordwest, Pembs.—B.C. to proceed with scheme for improvements to houses at Winch Lane estate.

Hendon, Middx.—Co. E.C. recommended to approve revised proposals for extension and adaptation of Copthall County School (first phase), estimated cost £19,240; provision of kitchens at following schools, Childs Hill Primary, Colindale Primary, Edgware Primary and The Hyde Primary, £7,580, £6,650, £7,230 and £7,060 respectively.

Hendon, Middx.—Bills of quantities are being prepared for the erection of a petrol-filling station, car showrooms, offices and a flat at 779-781 Finchley Road for A. Pannell, Ltd. Sir Robert Tasker and Partners, 3 Field Cottages, Grays Inn, London, W.C.1, are the architects and Alexander Cook and Partners, 5 Staple Inn, London, W.C.1, the quantity surveyors, for the scheme. Estimated cost £50,000.

Hackney and Hendon Greyhounds, North Circular Road, London, N.W.2, to apply for outline planning permission for the erection of the offices, to be built on stilts on the main car park at Hendon stadium, North London. Guy Morgan and Partners, 12A Eaton Square, London, S.W.1, are the architects for the scheme.

Hertfordshire.—Co. E.C. have approved scheme for improving facilities at Cuffley Camp. Estimated cost £4,148.

Heston and Isleworth, Middx.—Ministry have approved, subject to conditions, planning application for redevelopment of 333 and 335 Bath Road, by erection of a petrol filling station, car showrooms, offices and workshops, and the construction of an underground car-park and two means of vehicular access, for Lamberts of Kingston, Ltd. (Wickins, Quantrill and Partners, surveyors, 99 Park Lane, London, W.1). Estimated cost £80,000.

Hoddesdon, Herts.—U.D.C. to prepare revised plans for alterations to dressing room and toilet accommodation at the Spinning Wheel swimming pool. Estimated cost £2,000.

Hornsey, Middx.—C.C. recommended to approve scheme for the extension of the clinic at rear of Hornsey Town Hall and the conversion of heating system from coke to oil firing. Estimated cost £6,630.

Ilford, Essex.—B.C. recommended to approve the provision of a car park on decking at Goodmayes goods yard; approve in principle outline plan for the redevelopment of Laburnum Grove-Hainault Street area providing for the erection of a three-storey structure with parking space on the ground floor level, with rear service to frontage development, a parking deck and a shop (in replacement of an existing shop) on the first floor, together with an indoor bowls centre, restaurant, etc., on the second floor; prepare, subject to C.C. approval, scheme for the erection of a day centre for elderly people and a health clinic at Fencepiece Road and Forest Road junction.

Isleworth, Middx.—Co. E.C. recommended to approve provision of additional hutted classrooms at Isleworth Polytechnic. Estimated cost £9,750.

Islington.—B.C. recommended to appoint Messrs E. C. P. Monson, Finsbury Pavement House, 120 Moorgate, London, E.C.2, as the consultants for the construction of refuse container chambers on 14 estates. Estimated cost £10,000.

Kingston-upon-Thames, Surrey.—C.C. recommended to approve in principle the erection of a new building to provide courts and ancillary accommodation in the Brittoms, opposite County Hall. Estimated cost £200,000.

Ministry have approved the erection of a welfare centre and school clinic at junction of Acre Road and Cross Road, for C.C. Estimated cost £28,850.

Kingston-upon-Thames, Surrey.—B.C. recommended to negotiate tender with Dove Brothers, Ltd., Cloudesley Place, London, N.1, for the restoration of Lovekyn Chapel at Kingston Grammar School. The architects for the scheme are John Macgregor and Partners, 31 The Green, Richmond, Surrey. Estimated cost £3,850; approve scheme for the extension of accommodation at the Guildhall, £1,100.

Leamington Spa, War.—B.C. recommended to prepare schemes for the modernisation of 257 pre-war dwellings at Shrubland estate, The Holt, Pound Lane, Leicester Street, and Tachbrook Road estate.

B.C. recommended to approve detailed plans for the Binswood Tavern public house at Rugby Road/Barrett Place Corner, for Ansells Brewery, Ltd., Aston Brewery, Aston Cross, Birmingham, 6; outline application for erection of three-storey building comprising garage, lock-up shop or showrooms, administrative offices first and second floors, at corner of Regent Place and Church Street, for Kigass, Ltd., 31 Regent Grove.

Leatherhead, Surrey.—C.C. recommended to approve scheme for extension of civil defence centre. Estimated cost £4,000.

Leeds.—City Council recommended to invite tenders for erection of new sub-depot and garages at Blake Grove, Potternewton, estimated cost £52,530; to authorise expenditure of £4,006 for furniture and equipment, alterations, extensions and redecoration of office accommodation for City Architect's Department, St. Peter's Square School, Quarry Hill; to invite tenders, subject to provision being made in the estimates for the next financial year, for erection of a special unit for spastics on a site adjoining Stanningley Occupation Centre.

City Council have appointed J. G. L. Poulson, 29 Ropergate, Pontefract, architect for the erection of the Cross Green Comprehensive School, and Miller and Thomas, 13 Queens Square, Leeds, 2, quantity surveyors for the Ebor Gardens Hostel.

City Council recommended to approve plans for preliminary block and layout for new wholesale meat market and abattoir, and sketch plans and invite tenders from selected contractors for the erection of sports pavilions at Potternewton Park and New Wortley recreation ground.

Leyton, Essex.—B.C. recommended to prepare scheme for the provision of a children's paddling pool at Whipps Cross Bathing Pool.

Loughborough, Leics.—B.C. recommended to grant town planning permission for erection of an office block and compositors' room with alteration to access at Derby Square for Wills and Hepworth, Ltd., Angel Yard, Market Place; extensions to existing premises at Falcon Works for Brush Electrical Engineering Co., Ltd.

Lewisham.—B.C. will have drawings and quantities prepared and will invite tenders in due course for new public baths in Lewisham High Street. S. M. Cleator, 4 Ridgmount Street, W.C.1, is the consulting structural engineer; J. R. Kell of Oscar Faber and Partners, 4 Verulam Buildings, W.C.1, the consulting heating and ventilating engineer; and Oswald E. Parratt and Partners, Adelaide House, London Bridge, E.C.4, the quantity surveyors.

Llandudno, Caerns.—Co. E.C. have approved the erection of the new Welsh School at Cwm Road during 1961-62.

Luton, Beds.—Co. planning permission granted for development of the land bounded by Bridge Street, Guildford Street and Williamson Street, as a central bus station, including public conveniences, a block of shops and offices, and a private car park for 12 cars for B.C.

Highways and Planning Committee are considering applications by Vauxhall Motors, Ltd., for extending the main canteen block at Kimpton Road; Laporte Chemicals, Ltd., to erect an apprentices' training block at Kingsway.

Manchester.—City Architect to prepare specification and invite tenders for provision of refuse disposal plant and building at Water Street depot.

City Council have invited Leonard Fairclough, Ltd., Adlington; J. Gerrard and Sons, Ltd., Swinton; M. J. Gleeson (Contractors), Ltd., Surrey; J. Laing and Son, Ltd., London; A. Monk and Co., Ltd., Warrington; G. and J. Seddon, Ltd., Walkden, and Simon Carves, Ltd., Stockport, to submit tenders for the construction of the proposed new abattoir and meat market at Philips Park.

Morley, York.—B.C. recommended to approve plans for erection of County Council training centre in Westerton Road, West Ardsley.

Newcastle upon Tyne.—L. J. Couves and Partners, Grainger Chambers, Hood Street, are the architects for alteration and additions to printing works in Melbourne Street for J. W. Hindson and Son, Ltd.; Direct Dairies, Ltd., are to erect offices and milk storage facilities at Fisher Street, to plans by G. T. Allnutt, 2 The Rise; plans are being prepared by Arthur and Kirkup, 13 Swinburne Street, Gateshead, for warehouse and office in Railway Street and Hare Street for C. McKenna, Ltd.; alterations and additions proposed in Grainger Street for W. E. Harker, Ltd. (C. S. Errington, architect, 46 Grainger Street); City Council to build cleansing depot in Pitt Street and Seaham Street, no contracts let (Child and Hall, architects, 6 Archbold Terrace); St. Michael's Church Council, Byker, are to erect a church hall at Cheviot View (Newcombe and Newcombe, architects, 23 Eldon Square; C.W.S. Architects' Dept., 90 Westmorland Road, are to build additional storey for offices and watchman's flat to premises at Lynnwood Terrace.

Minories Garages, Ltd., Jesmond Road, are to take over a five-acre site and buildings at Cremona Park for the erection of workshops, showrooms and stores. The architects are Waring and Netts, 36 Jesmond Road, Newcastle.

Newport, Mon.—B.C. recommended to proceed with the preparation of working drawings for the erection of 23 shops at Ringland Neighbourhood unit shopping centre (first stage); approve plans for the third and final stage of Duffryn High School.

Newton Abbot, Devon.—R.D.C. have approved plans for the erection of a police station and two houses at North Bovey Road, Moreton Hampstead, for Standing Joint Committee.

Norfolk.—East Anglian Regional Hospital Board recommended to approve scheme for improvements to kitchen at North Walsham Cottage Hospital. Estimated cost £1,450.

Northolt, Middx.—C.C. recommended to approve the erection of a fire station at Petts Hill. Estimated cost £53,825.

Norwich.—City Council recommended to approve plans for an old people's hostel at North Park Avenue. Estimated cost £40,300.

Norwich.—East Anglian Regional Hospital Board recommended to approve in principle the provision of a ward-type building to provide additional children's accommodation at Jenny Lind Hospital.

Ossett, Yorks.—West Riding C.C. recommended to approve expenditure of £1,065 for internal painting and alterations at Highways and Bridges Laboratory.

Oxford.—City Council recommended to approve plans for the erection of 24 garages at south side of Barracks Lane.

Regional Hospital Board have approved schemes for the provision of a nurses' training school at Littlemoor Hospital and a rehabilitation workshop at Rivermead Hospital. Estimated cost £8,000 and £14,377 respectively.

Pembrokeshire.—Cemaes R.D.C., Haverfordwest R.D.C. and Fishguard and Goodwick U.D.C. have approved in principle plans for the erection of a joint mortuary in the Fishguard area. Estimated cost £3,000.

Board of Trade propose the erection of an advance factory at Pembroke Dock.

Plymouth.—City Council recommended to apply for sanction to borrow £2,670 for the provision of additional teaching accommodation at Laira Green Secondary School; reserve site at proposed car park south of Derry's Cross roundabout for the erection of public conveniences; prepare scheme for the construction of garages at 47-49 Wandsworth Road; prepare sketch plans for the erection of pavilions at Drake's Reservoir and Central Park to incorporate a swimming pool built to international standard and include provisions for dancing, ice-skating, concerts, indoor tennis, badminton, boxing promotions, athletic training, a cafe and provision for indoor bowls.

Poole, Dorset.—B.C. propose the erection of a new Ashley Cross Secondary Girls' School.

Poplar.—B.C. recommended to appoint Thos. Barrett Sons and Partners, 50 Pall Mall, London, S.W.1, as the quantity surveyors, and J. Stinton Jones and Partners, 21 Gloucester Place, W.1, as the heating consultants, in connection with the proposed Bow Library at Stafford Road.

Portsmouth.—City Council recommended to apply for sanction to borrow £20,000 for reconstruction of war damage at Drayton Road Infants' School and £42,950 for erection of two science laboratories and remodelling of three existing rooms at Portsdown Modern School for Boys.

Rhyl, Flints.—U.D.C. are considering scheme for the erection of a theatre and public hall adjoining the Pavilion at West Parade. Estimated cost £300,000.

Roxburghshire.—C.C. have approved in principle plans for a motel at Groundistone Heights for W. F. Murray, Ltd., 8 Baker Street, Hawick.

Ruislip, Middx.—C.C. recommended to approve the erection of a fire station at Bury Street/Breakspear Road. Estimated cost £63,060.

Scunthorpe, Lincs.—B.C. recommended to grant planning permission for the conversion of 37 Oswald Road, into a banking hall with offices over for the United Dominions Trust, Ltd., United Dominions House, Eastcheap, London, E.C.3.

Selby, Yorks.—West Riding C.C. recommended to approve adaptations to block 2, Brook Lodge. Estimated cost £1,950.

Sheffield.—West Riding C.C. recommended to approve provision of accommodation for the Stockbridge College of Further Education. Estimated cost £87,000.

Shildon, Dur.—New club premises are proposed by the Elm Road Workmen's Club. The architect is E. G. Crofts, 49 Grange Road, Darlington.

Southall, Middx.—Co. E.C. recommended to approve the extension of Southall Technical College. Estimated cost £7,624.

Southport, Lancs.—B.C. recommended to instruct Borough Architect and Town Planning Officer to prepare plans, etc., for the erection of a residential hostel for mentally sub-normal persons at Ainsdale, during financial year 1962-63.

Spennymoor, Dur.—M.T. have approved in principle the U.D.C.'s £20,000 scheme for the construction of a bus station behind the Town Hall. The Council's architects are Gray and Paterson, Camden Street, North Shields.

Stockport, Ches.—B.C. have approved scheme for the provision of public conveniences at Gorsey Bank Park. Estimated cost £2,100.

Stockton-on-Tees, Dur.—Plans submitted to the B.C. for erection of office block, warehouse and store for J. W. Towers and Co., Ltd.; Y.M.C.A. headquarters, Bath Lane; two-storey building, Commercial Street for F. Pear (Teesside), Ltd.; club premises, Brunswick Street, for the Royal Naval Association; alterations to the R.A.O.B. social club, Norton Road, and factory building for W. Finlayson, Ltd. B.C. to carry out additions to Grangefield Grammar School at a cost of about £20,000 and the scheme will be included in next year's estimates.

Stoke-on-Trent, Staffs.—City Council recommended to prepare plans for the erection of depot at Chapel Lane, Burslem, alterations to the abattoir and a refreshment room, tennis pavilion and conservatory at Queen's Park, Longton; submit to Ministry for approval sketch plans for an old people's home at Berryhill estate; apply for sanction to borrow £11,655 for the provision of an assembly hall at Hanley C. of E. School, and £19,825 for administration and teaching accommodation at Oakhill County Secondary School.

Stowmarket, Suffolk.—East Anglian Regional Hospital Board recommended to approve scheme for improvements to kitchen at Stow Lodge Hospital. Estimated cost £2,500.

Sunderland, Dur.—Plans approved for the construction of a three-storey building in Norfolk Street and West Sunniside for Alexander Rose (Estates), Ltd., Leeds (H. F. Dove, architect, 28 Park Square, Leeds, 1); Associated Portland Cement Manufacturers, Ltd., Hull, are to convert warehouse at Hudson Dock North, for the reception, storage and despatch of cement in bulk. Plans are by the firm's chief engineer (P. Collins).

Plans are being prepared by Marshall and Tweedy, 36 Blackett Street, Newcastle upon Tyne, for cafe, kitchen, storeroom, rest room, toilets, etc., for Carricks (Caterers), Ltd., in Crowtree Road; additional warehouse space is to be built on Hylton Castle estate for Broughs, Ltd. (Tasker and Partners, architects, 25 New Bridge Street, Newcastle upon Tyne).

Surbiton, Surrey.—B.C. recommended to approve outline plans for the extension of the Central Library.

Surrey.—C.C. recommended to approve second stage of construction of old people's homes at New Inn Lane, Burpham, during 1960-61. Estimated cost £63,000.

Ministry have approved scheme for adaptation of accommodation at Hambledon Homes, for C.C. Estimated cost £6,100.

Sutton, Surrey.—C.C. recommended to approve scheme for extension to Brambleacres old people's home during 1961-62. Estimated cost £35,000.

Sutton and Cheam, Surrey.—C.C. recommended to approve the construction of phase 1 of rescue training set at Worcester Park sewage works. Estimated cost £2,126.

Sutton and Cheam, Surrey.—B.C. recommended to invite tenders for erection of a bowls pavilion at Rose Hill Recreation Ground. Estimated cost £1,650.

Swansea.—David W. Price, Faaram Court Farm, Killay, has prepared scheme for the construction of a sports stadium, car parks, a motor-racing track, flat racing, steeplechase and trotting tracks and a greyhound track, etc., at Fairwood Park Racecourse. Estimated cost £500,000.

Swindon, Wilts.—B.C. recommended to invite tenders from selected contractors for external painting of 650 dwellings during 1961 and provision of dressing room accommodation at Gorse Hill community centre.

Tunbridge Wells, Kent.—B.C. recommended to proceed during 1961-62 with schemes for the extension of lavatory accommodation at St. John's Recreation Ground. Estimated cost £1,100 and various works in connection with the provision of a house and office accommodation on land forming part of the Borough Cemetery and Crematorium at Benhall Mill Road, £3,500; to appoint W. E. Stoner and Roper, 20 Dudley Road, Tunbridge Wells, as quantity surveyors and invite tenders for the erection of a slaughterhouse at North Farm, £40,000; approve plans for improvements to 13 cottages on Waterworks property, £5,500; to reserve site at Ely Lane car park for the erection of public conveniences.

B.C. recommended to approve, subject to conditions, outline application for a five-storey and a six-storey office block at 10-16 and 7-9 Church Road, for Lewis A. Leroy, Ltd., Dudley House; plans for the erection of a factory at Lamberts Road, North Farm Estate, for A. Edor Products, Ltd., 215a Upper Grosvenor Road.

Twickenham, Middx.—C.C. recommended to approve the provision of additional staff accommodation and adaptations at 40 Cambridge Park. Estimated cost £6,595.

Tynemouth, Northumb.—Northumberland Whinstone Co., Ltd., Milburn House, Newcastle upon Tyne, are interested in a site on the Coast Road, North Shields, for offices and car park.

Walthamstow, Essex.—B.C. recommended to prepare plans for the provision of new public baths on land at rear of the Town Hall.

Warrington, Lancs.—Liverpool Regional Hospital Board have approved revised estimated cost of £52,600 for adapting the existing smallpox hospital at Sankey, near Warrington. Scheme to be submitted to the Ministry.

Watford, Herts.—B.C. recommended to proceed with scheme for the provision of showers at Oxhey Park Pavilion.

Welwyn, Herts.—R.D.C. to prepare scheme for the erection of a civic centre and provision of car park at Prospect Place.

West Sussex.—E.C. recommended to approve scheme for extensions to Irene Avenue Secondary School for use as a primary school. Estimated cost £23,084.

Weymouth, Dorset.—B.C. recommended to apply for sanction to borrow £11,740 for modernising 29 flats at Salisbury Road and Granville Road.

Willesden, Middx.—B.C. recommended to approve for inclusion in 1961-62 programme scheme for the modernisation of Kensal Rise Branch Library; to prepare plans for the provision of a two-storey medical practices centre in the South Kilburn redevelopment area.

DEMOLITION

Burton-on-Trent, Staffs.—B.C. recommended to invite tenders for the demolition of Albury House at Stapenhill Road.

ELECTRICAL

Cambridge.—East Anglian Regional Hospital Board recommended to approve the complete rewiring of Bourne Isolation Hospital during 1961-62. Estimated cost £5,000.

Dagenham, Essex.—B.C. propose scheme for the modernisation of the lift at the Civic Centre. Estimated cost £3,000.

Ministry have approved B.C.'s scheme for the installation of traffic signals at Ballards Road/Oval Road North junction.

Norwich.—East Anglian Regional Hospital Board recommended to approve scheme for electrical rewiring of first and second floors at Whitlingham Hospital. Estimated cost £4,849.

Willesden, Middx.—B.C. recommended to appoint Harold Young and Associates, 199 Piccadilly, London, W.1, as electrical consultants, for the erection of a new office block.

FENCING

Bexley, Kent.—B.C. to include in the 1961-62 programme scheme for the renovation

of wrought iron gates and railings at Hall Place. Estimated cost £985.

Dorchester.—B.C. recommended to approve the provision of fencing at the sewage disposal works. Estimated cost £1,000.

London.—L.C.C. approved the replacement of iron railings removed from housing estates during the war. Estimated cost £90,000.

Todmorden, Yorks. — West Riding C.C. recommended to approve the fencing of land being acquired as a site for the proposed primary school. Estimated cost £838.

Tunbridge Wells, Kent.—B.C. recommended to proceed during 1961-62 with scheme for the provision of gates and fences at Dunorlan Park. Estimated cost £950.

GAS AND WATER SUPPLY

Barrow-in-Furness, Lancs. — B.C. recommended to apply for sanction to borrow £8,000 for unspecified water mains.

Bolton, Lancs.—B.C. recommended to approve the laying of a 6in. water main in Leigh Road and Hindley Road, Westhoughton. Estimated cost £8,000.

Doncaster, Yorks.—B.C. recommended to approve laying of new water mains for high density development in the Central Area. Estimated cost £2,360.

Edinburgh.—City Council propose to construct a new reservoir in Peebleshire to hold 2,000 million gallons. Estimated cost £1,300,000.

Mansfield, Notts. — B.C. recommended to apply for sanction to borrow £2,000 for the provision of an additional pump at Rainworth Water Works.

Penrith, Cumb.—R.D.C. seeking permission to construct two new service reservoirs at Castle Ewin and Coltclose.

Peterborough. — City Council recommended to apply for sanction to borrow £411,000 for laying a new 27in. pumping main to a storage reservoir and 30in. and 33in. trunk mains from Wilsthorpe to Etton.

Stockport, Ches. — B.C. have appointed G. H. Hill and Sons (Manchester), 51 Moseley Street, Manchester, 2, as consultant engineers for the development of the Wilmslow Pumping Station.

Swindon, Wilts. — B.C. recommended to approve the laying of water mains to serve private housing development at Coventry Farm estate, Wroughton. Estimated cost £8,205.

Tunbridge Wells, Kent.—B.C. recommended to approve for inclusion in 1961-62 programme, scheme for extensions to various watermains. Estimated cost £8,000 and renewing and scraping, etc., of water mains, £16,000; approve the laying of water mains at the Culverden Down Estate. £3,860.

HEATING AND VENTILATING

Bexley, Kent. — B.C. to appoint Winton Thorpe, Tunnadine and Partners, 100 Victoria Street, London, S.W.1, as mechanical and electrical consultants for the provision of additional accommodation at Westwood County Secondary Schools.

Doncaster, Yorks.—B.C. recommended to apply for sanction to borrow £8,850 for installation of electrically heated stand-by steam raising equipment at St. James's Street, Baths.

Felixstowe, Suffolk.—East Anglian Regional Hospital Board recommended to approve the provision of ventilation plant at Felixstowe General Hospital. Estimated cost £1,400.

Ipswich, Suffolk.—East Anglian Regional Hospital Board recommended, subject to Ministry approval, to invite tenders for the provision of new boiler house, steam boiler plant and water tower at Ipswich and East Suffolk Hospital (Anglesea Road Wing). Estimated cost £125,000.

Willesden, Middx.—B.C. recommended to appoint Donald Rudd and Partners, 3 Rickmansworth Road, Watford, Herts., and Sulzer Brothers, Ltd., 12 Dycott Street, London, W.C.1, as heating consultants for the redevelopment of Kilburn Square and erection of a new office block, respectively; to submit to C.C. for inclusion in 1960-61 programme scheme for the conversion of the heating system to burn gas oil at Kensal Rise Primary School. Estimated cost £1,055.

HOUSING SCHEMES

Amble, Northumb.—U.D.C. have approved plans for the erection of 38 houses and bungalows on the Links estate.

Banbridge, Down.—U.D.C. have approved plans to erect 38 old people's houses on three sites.

Bangor, Caerns.—B.C. recommended to approve amended scheme prepared by Gregory Housing, Ltd., for the erection of a block of 9 three-storey flats at Lon Ogwen.

Bath, Som.—City Council recommended to approve revised layout for 52 houses, six bungalows and 35 lock-up garages on the Kingsway Estate between Fairwood Glen and Rush Hill.

Bedlington, Northumb. — U.D.C. seeking Ministry approval for the erection of blocks of three-storey flats and maisonnettes at East Green, Choppington. Estimated cost £273,000.

Bideford, Devon.—B.C. recommended to prepared plans for the erection of 18 old people's houses at Stanhope Terrace and 15 houses at Stucley Road.

Cambridge.—East Anglian Regional Hospital Board recommended to appoint Hughes and Bicknell, Tunwells Court, Trumpington Street, Cambridge, as architects and Lewis and Marshall, 9 Rose Crescent, Cambridge, as quantity surveyors for the erection of a pair of houses at Fulbourn Hospital. Estimated cost £5,500.

Chelmsford, Essex.—B.C. recommended to appoint E. Dudley Smith and Partners, 139 London Road, Chelmsford, as quantity surveyors for the erection of 21 old people's flats and warden's accommodation at Melbourne Estate. Working drawings for the scheme are being being prepared by Stanley Bragg, architect, Borehamgate House, Sudbury, Suffolk.

Dagenham, Essex.—B.C. recommended to obtain tenders for the erection of 14 old persons' flats and 4 two-bedroom type flats at Rainham Road/Cadiz Road.

Darlington, Dur.—Bussey and Armstrong, Ltd., Brinkburn Road. are planning the erection of 72 houses north of Kirkfield Road.

Dudley, Worcs. — B.C. recommended to prepare amended scheme for 60 dwellings and two shops at The Croft, Woodside; appoint A. T. Butler and Partners, Priory Street, as architects for the erection of flats at The Bullring, Stourbridge Road.

Durham.—Plans are being considered for the erection of houses on a 55 acres site at Broomside Lane, Belmont. The promoters are F. W. Rought and Sons, Ltd., Woolsington Bridge estate, Newcastle upon Tyne.

Ealing, Middx.—B.C. recommended to prepare scheme for erection of flats at Dryden Avenue.

Eastbourne, Sussex.—B.C. recommended to submit to Ministry for approval scheme for the inclusion of 20 flats at Binstead Close, in the 1961 programme; recommended to approve alternative layout, subject to conditions, for two four-storey blocks of 16 flats and one three-storey block of six flats at the Chatfield-Davis Estate, rear of Binstead Close and Faygate Road.

Enfield, Middx. — North Middlesex Area Planning Committee have approved, subject to conditions, outline application for erection of 6 flats at Raynton Road. 18 flats with garages on site of Tricity Cookers, Ltd., and Parsonage Lane, 26 houses and 24 flats with garages at Hoe Lane, 6 flats and 2 houses at Queens Road and Seaford Road, 30 flats and 4 shops at Hertford Road, 16 houses and 16 garages on part of Brooklands Nursery, Ingersoll Road, for B.C.

Glasgow.—Housing committee are to proceed with their plans to erect about 400 houses in multi-storey blocks at Mosspark Boulevard, between Auldbar Road and Dumbrech Road.

Grantham, Lincs.—B.C. recommended to prepare plans for 60 traditional houses at Earlesfield (scheme 61).

Great Yarmouth, Norfolk.—B.C. recommended to prepare scheme for the erection of three old people's bungalows at Maygrove site.

Guildford, Surrey.—B.C. recommended to approve the erection of 12 flats and 12 garages on site as Caxtons, London Road.

Hatfield, Herts.—Development Corporation propose the erection of a 13-storey block of flats in the town centre.

Hertford.—B.C. recommended to approve revised application for the development of land north of the Hertford/Welwyn Road by the erection of flats and maisonnettes for G. W. Dale, 43 Fore Street, Hertford.

Inverness.—Dean of Guild Court have approved City Council's plan to erect 26 houses and two shops at Dalneigh. Estimated cost £35,833.

Leamington Spa, War.—B.C. recommended to approve detailed plans for 54 semi-detached houses, three detached houses and eight bungalows at Parklands Avenue and adjacent cul-de-sac, for Lewis and Watters, Ltd., Lime Avenue.

Leeds.—City Council recommended to approve revised layout plan for development at Greenside providing for erection of 138 dwellings and 126 garages; revised layout plan for redevelopment of an area of land at Lincoln Green providing for the erection of 470 dwellings and 324 garages; layout plan for additional development on the Moorfield House estate providing for the erection of 26 bungalows, 12 two-storey houses, eight four-storey maisonnettes and five garages; erection of 10 five-person terrace houses on the New Carlton estate.

Lewisham.—B.C. recommended to develop sixth stage of Ladywell Park housing scheme by erection of 45 flats and eight garages.

Llanfyllin, Monts.—R.D.C. are to prepare scheme for housing development at Llansantffraid.

Londonderry.—City Council have approved a scheme for the erection of 500 houses.

Luton, Beds. — Co. planning permission granted for the erection of 34 semi-detached houses and garages at Gooseberry Hill for B.C.

Mansfield, Notts.—B.C. recommended to approve plans for the erection of 5 houses, 20 two-storey flats and 14 garages at Pleasley Hill and 10 aged persons' bungalows at Ravensdale housing estate; invite tenders for 24 three-storey flats and 10 garages at Sandy Lane.

Morley, Yorks.—B.C. recommended to approve in principle new type plan for blocks of four flats.

Oxford.—City Council recommended to approve outline plans for the erection of 30 three-storey flats and maisonnettes and car ports at site adjoining Church Farm House, Upper Wolvercote, for George Wimpey and Co., Ltd.

Plymouth.—City Council recommended to prepare scheme for housing development at Whitleigh.

Richmond, Surrey.—Davis Estates, 346 Kilburn High Road, London, N.W.6, have applied for planning permission for redevelopment of Palm Court Hotel by erection of 70 to 100 flats and a new hotel on the site.

Richmond, Yorks.—R.D.C. to buy five acres of land at Walkerville. Colburn, for the erection of 24 houses, 12 flats, and 16 old people's one-bedroom flats.

Rugby, War.—B.C. recommended to approve revised plans for 72 houses, bungalows and garages at Featherbed Farm estate, for T. Wilson and Son, Ltd., 65-67 Sheep Street, Northampton.

St. Marylebone.—B.C. recommended to appoint Smith and Bowl, quantity surveyors, 115 Ebury Street, London, S.W.1, to advise in the scrutiny of proposals which are being invited from contractors for development of the Mulready Street area by erection of about 170 dwellings. Estimated cost £400,000.

Scunthorpe, Lincs.—B.C. recommended to approve plans for 624 houses, 82 maisonnettes, 169 flats, four bungalows and 626 garages at Westcliff estate.

Stockport, Ches.—B.C. to proceed with scheme for the erection of 20 old people's dwellings at Alexandra Road.

Stockton-on-Tees, Dur.—J. T. Bell and Co., Ltd., Market Street Chambers, Newcastle upon Tyne, propose housing developments on the Rosedale estate; plans submitted to the local authority for the erection of 15 bungalows and 11 shops with flats above at Billingham Road for Kendrews, Ltd., Norton, Stockton.

Sunderland, Dur.—Borough Architect has prepared layout plans for another 550 houses on the Town End Farm estate (phase 3), and plans for 114 houses and 41 garages on the Hylton Red House estate.

Sutton and Cheam, Surrey.—B.C. are preparing working drawing and bills of quantities for the erection of five houses, five bungalows and 10 flats on land at rear of Pond Hill Parade and 25-43 (odd) Malden Road, and eight flats and eight bungalows on land at rear of the Rectory.

B.C. recommended to invite tenders shortly for 16 flats and eight flatlets on site of St. Nicholas Rectory, West Street; approve scheme for 10 houses and car parking space at Woodbine Lane, Worcester Park.

C.C. have approved outline planning permission for erection of a terrace of three three-bedroom houses, three garages and a bungalow at Cheam Park for B.C.

B.C. recommended to approve erection of 25 units in one-, two- and three-storey block, for M. J. Gleeson (Contractors), Ltd., Haredon Ho., London Road, North Cheam.

Teignmouth, Devon. — Regional Planning Committee have U.D.C.'s plans for 6 old people's flats at Speranza Grove.

Walthamstow, Essex.—B.C. recommended to approve scheme for the erection of 20 bungalows and 62 garages on site at rear of 58-156 Sturge Avenue; prepare scheme for six flats at 4 Montalt Road.

Wisbech, I. of E.—B.C. recommended to submit to Co. Planning Committee for approval, layout for three blocks of flats and five houses on the southern portion of the George Street redevelopment area.

MISCELLANEOUS

Swansea.—B.C. have approved in principle the provision of an additional furnace at Morriston Crematorium. Estimated cost £15,000.

PLAYING FIELDS, PARKS, ETC.

Ashford, Kent.—U.D.C. to purchase land near the High Street for provision of sports facilities.

Cheltenham, Glos.—B.C. recommended to approve scheme for the construction and layout of the new recreation ground at Hesters Way, including the entrance from Princess Elizabeth Way and the construction of the Chelt Walk therefrom, and on the land belonging to the council at the rear of Brooklyn Gardens to the access road from Arle Road to the old electricity works. Estimated cost £4,491.

Eton, Bucks.—R.D.C. recommended to approve scheme for further repairs and improvements at Stoke Park. Estimated cost £1,275.

Gateshead, Dur.—B.C. recommended to approve provision of a park at Calderwood Dene. Estimated cost £4,675.

Glastonbury, Som.—B.C. have prepared plan for the construction of a playing field at Windmill Hill. Estimated cost £1,200.

Hertford.—B.C. recommended to prepare scheme for the provision of a new 6-rink bowling green at Hartham.

Leyton, Essex.—B.C. recommended to approve in principle scheme for the layout of land (previously occupied by temporary hutments) as a play area at Coronation Gardens.

Oxford.—City Council recommended to approve the provision of a children's recreation ground with paddling pool and shelter at Sandy Lane, Blackbird Leys Estate.

Pontypool, Mon.—U.D.C. have approved in principle scheme for the provision of four football pitches, a hockey pitch, a cricket square, practice wickets, a pavilion and a car park at New Inn. Estimated cost £12,200.

Selby, Yorks.—West Riding C.C. recommended to approve the development of land acquired for playing fields for the Selby Girls' High School. Estimated cost £2.045.

Stockport, Ches.—B.C. have appointed Arthur Farebrother and Partners, 99 Seymour Grove, Manchester, 16, as architects for the development of playing fields at St. Anne's R.C. School.

Street, Som.—U.D.C. to prepare scheme for the improvement of Wraxall Park during 1961.

Weymouth, Dorset.—B.C. recommended to prepare plans for the provision of playground facilities at Littlemoor Estate.

Woolwich.—B.C. recommended to develop vacant land at the corner of Beresford Street and Woolwich High Street and the existing greens facing Woolwich Power Station as amenity open spaces. Estimated cost £2,200.

RAILWAY ENGINEERING

Northumberland.—C.C. have approved in principle the reconstruction of Cramlington railway bridge. The work will be carried out in conjunction with the British Transport Commission.

RIVER AND FLOOD PREVENTION WORKS

Smethwick, Staffs.—B.C. recommended to submit to Birmingham City Council for approval, scheme for flood alleviation works from Watery Lane to Black Patch Park. Estimated cost £426,000.

ROADS, BRIDGES AND SITE WORKS

Bagshott, Surrey. — Co. Highways and Bridges Committee have submitted to M.T. for approval, scheme for widening the trunk road A.30 at Jenkins Hill. Estimated cost £35,000.

Barnstaple, Devon.—M.T. propose scheme for the widening of Long Bridge over the River Taw. Estimated cost £207,000.

Berkhamsted, Herts.—U.D.C. are considering scheme for the construction of a footpath on the east side of Chesham Road. Estimated cost £12,000.

Birkenhead, Ches.—B.C. are to prepare schemes for the improvement of Church Road, estimated cost £30,000; Old Chester Road, £30,000; Greasby Road, £12,000; Saughall Road, £10,000; and Upton Road, £3,000.

Birmingham.—City Council recommended to approve schemes for provision of an additional car park at Birmingham Airport. Estimated cost £5,100; reconstruction of King's Road, Kingstanding, between Kingstanding Road and Queslett Road, £50,000; revised scheme for roadworks at junction of Lea Hall Road, Deepmore Road and Yardley Fields Road, £13,250.

City Council recommended to approve, subject to M.T. approval, the following works during 1960-61: Provide new foundations where necessary and surface with asphalt, reconstruct footways, Stratford Road (between the River Cole and Hamlet Road), £59,000; burn and plane existing tarred macadam surface, make good foundations and resurface with asphalt, Staple Lodge Road and Wychall Road, from Staple Lodge Road to Popes Lane, and Wychall Lane from Popes Lane to Lake House Grove £20,000; provide new foundation and surface with asphalt, reconstruct footways, Oxhill Road (between Windermere Road and Sandwell Road), £35,000; provide new foundation and surface with asphalt, reconstruct footways, Hamstead Hill (between the Mill Feeder and Friary Road), £38,000; remove sett paving and resurface with asphalt, construct footways where necessary, Moseley Street (between Moseley Road and the River Rea), £23,000.

Bishop's Stortford, Herts.—U.D.C. propose scheme for the making-up of Crown Terrace. Estimated cost £1,212.

Blackburn, Lancs.—B.C. recommended to approve scheme, subject to M.T. approval, for improvement at junction of Old Bank Lane and Haslingden Road. Estimated cost £1,400.

Bristol.—City Council recommended to approve scheme for extension of the main instrument runway at Lulsgate Airport. Estimated cost £16,000.

Bromley, Kent.—B.C. recommended to prepare working drawings and invite tenders for the reconstruction of the central islands in the High Street south of Ethelbert Road, estimated cost £2,598.

Cardiff.—City Council recommended to approve scheme for kerbing, drainage and surfacing of roads at packing depot site, Pengam. Estimated cost £5,000.

Chelmsford, Essex.—B.C. recommended to approve plans for the making-up of Roxwell Avenue and Beaches Drive (part); apply for sanction to borrow £27,980 for the construction of a new road between Patching Lane and Melbourne Avenue.

Cheltenham, Glos.—B.C. recommended to prepare plans for the reconstruction and widening of Cheltenham/Tewkesbury Road Bridge and Lansdown Road Bridge.

Chester.—City Council recommended to apply for sanction to borrow £1,225 for the completion of roadworks at Willow Crescent.

Deal, Kent.—B.C. recommended to prepare plans for the making-up of Kelvedon Road, Walmer.

Derbyshire.—C.C. to submit to M.T. for approval road heating scheme for Alfreton Hill, on the main Derby—Sheffield trunk road.

Doncaster, Yorks.—B.C. recommended to approve schemes for treatment of the roundabout at junction of Carr House Road and Bawtry Road. Estimated cost £3,500.

Dorking, Surrey.—Co. Highways Committee have approved the first stage of scheme for improving the Maidstone-Guildford Road (A.25) between the Watermill Cafe and Old Reigate Road. Estimated cost £24,000.

Ealing, Middx.—B.C. recommended to approve scheme for improvements at junction of Helena Road and Montpelier Road, estimated cost £1,050; approve site works and provision of a car park, etc., at Greenford Community Centre.

Ealing, Middx.—C.C. recommended to approve the widening of Uxbridge Road, along the frontage of Deans Gardens. Estimated cost £12,350.

Folkestone, Kent.—B.C. recommended to approve revised scheme for improvements to Tudor Road and Cobden Road.

Fulham.—B.C. recommended to approve reshaping and resurfacing of Carnwath Road between Wandsworth Bridge Road and Peterborough Road, estimated cost £3,400.

Great Yarmouth, Norfolk.—B.C. recommended to include in the 1961-62 estimates scheme for constructing a subway under Lowestoft Road. Estimated cost £20,000.

Greenwich.—B.C. recommended to approve the following programme for minor road improvements: (1960/61) Old Dover Road (Roxy Cinema to St. John's Park), £20.000; (1961/62) Charlton Church Lane Bridge and road widening (Woolwich Road to Delafield Road), £88.000; (1962/63) Charlton Way/Maze Hill roundabout, £64,000, The Village, Charlton, by-pass, £30,000; (1965/66) Crooms Hill widening, £140,000.

Guildford, Surrey.—B.C. recommended to submit to C.C. scheme for the construction of a new link road between Merrow and Burpham.

Hampstead.—L.C.C. propose the acquisition of land for the widening of Finchley Road and the improvement of the Finchley Road-Swiss Cottage intersection. The scheme provides for an overall width in Finchley Road of 80ft., two 27ft. carriageways and two 10ft. footways.

Hemel Hempstead, Herts.—Ministry have approved B.C.'s schemes for the improvement of Hillfield Road and Leverstock Green.

Hornsey, Middx.—C.C. recommended to approve construction of bus bay on northern side, west of Clarendon Road, Turnpike Lane. Estimated cost £2,210.

Leeds.—City Council recommended to approve scheme for preliminary earthworks and pitching in connection with provision of two service roads to Middleton Park Road. Estimated cost £2,850; to authorise improvement works in Spen Lane from Butcher Hill to Morris Lane, £75,000; to authorise expenditure of £18,850 for constructing and paving forecourts, service roads and yard areas to the shopping parades at Lingfield Drive (Moortown East estate), Queenswood Drive (Beckett Park estate), Kentmere Approach (Seacroft estate), Raynel Drive (Ireland Wood estate), Ganners Hill (Moorside estate) and Swinnow Lane (Swinnow estate), and £9,200 for construction of a cul-de-sac on the Moorside estate; to approve layout plans for garage sites off St. Wilfrid's Circus, Gipton estate and off Kimberley Grove, Harehills estate and for the reconstruction and extension of the garage site off Beech Lane, Gipton estate, and that tenders be invited for the erection of brick garages on the sites.

Malden and Coombe, Surrey.—Co. Highways and Bridges Committee have submitted to M.T. for approval, scheme for a fly-over at junction of the Kingston by-pass (A.3) with Coombe Lane (A.238). Estimated cost £350,000.

Mansfield, Notts.—B.C. recommended to submit to M.T. for grant aid schemes for the improvement of Bath Lane and Nottingham Road.

Morley, Yorks.—Borough Engineer recommended to prepare plans for making up Springfield Lane (part) and connecting road to Springfield Road.

Newport, Mon.—B.C. recommended to approve amended plans for the construction of the George Street Bridge.

Oxford.—City Council recommended to approve scheme for the reconstruction of Garsington Road railway bridge and improvement of Watlington Road. Estimated cost £23,820.

Reading, Berks.—B.C. recommended to approve the inclusion in 1961-62 programme, schemes for construction of footpaths at West Side of St. Barnabas Road, and from Haywood Way to Cockney Hill. Estimated cost £3,000 and £1,000 respectively; approve scheme for the extension of hardstanding and erection of chain link fencing at Hill's Meadow Car Park, £2,000; apply for sanction to borrow £14,221 for improvements to Oxford Road between Argyle Street and Western Elms Avenue.

Rochdale, Lancs.—Borough surveyor to prepare plans, etc., for making-up of Joy Street from Isabella Street to Binns Nook Road and re-aligning the Joy Street—Binns Nook Road junction.

Rothwell, Yorks.—West Riding C.C. recommended to approve expenditure of £11,000 for improvements at and near the junctions of the Wakefield and Aberford (Class 1) and the Oulton and Tingley (Class 1) County Roads with the Leeds and Barnsdale (Class 1) County Road at Oulton, in the Urban District of Rothwell.

Sedbergh, Yorks.—West Riding C.C. recommended to approve expenditure of £1,275 for construction of two cattle grids on the Sedbergh and Hawes (Class 1) County Road at Langstone Fell.

Southall, Middx.—C.C. recommended to approve construction of bus bay and attendant works in front of proposed new Southall Station, The Green. Estimated cost £1,750.

Staines, Middx.—C.C. recommended to approve, subject to M.T. approval and grant aid, scheme for provision of a footbridge alongside Stanwell Road railway bridge. Estimated cost £2,200.

Stockport, Ches.—B.C. have approved plans for making-up Meadows Road (part), and the Diamond Road and Halesden Road group of streets.

Stoke-on-Trent, Staffs.—City Council recommended to prepare scheme for a bus lay-by at Ivy House, Bucknall; plans for making-up Hilary Street (part), Crystal Street, Douglas Street and Mawdesley Street at Cobridge, Cavour Street (part), at Etruria, Northam Road at Birches Head and William Avenue at Meir.

Stratford-upon-Avon, War.—B.C. recommended to invite tenders for improvement of Bishopton Lane. Estimated cost £7.000.

Tottenham, Middx.—C.C. recommended to approve scheme for improvement at junction of Downhills Way, Belmont Road and Downhills Park Road. Estimated cost £14,400.

Tunbridge Wells, Kent.—B.C. recommended to approve for inclusion in the 1961-62 programme schemes for improvment to the junction of Vale Road and London Road (part). estimated cost £8,000, and completion of Ely Lane Car Park (stage III and IV), £15,200; to proceed immediately with stages I and II of Ely Lane Car Park; to prepare schemes for the provision of a roundabout at the Kentish Mansions and improvements to the junction of High Street, Grove Hill and Mount Pleasant.

Tyrone.—C.C. propose the construction of a bridge over the river Foyle at Lifford. Estimated cost £120,000.

Walthamstow, Essex.—B.C. recommended to prepare plans for making-up of Mount Pleasant Road (part).

Willesden, Middx.—B.C. recommended to submit to C.C. for inclusion in 1961-62 programme schemes for the reconstruction of Willesden Lane from Dyne Road to Coverdale Road, construction of roundabouts at Palermo Road/Bathurst Gardens junction and Harrow Road/Craven Park Road junction and widening Dudden Hill Lane, between Prout Grove and Normanby Road.

Wood Green, Middx.—B.C. recommended to submit to C.C. for approval, plans for the widening of the High Road.

Worcester.—City Council recommended to approve plan for future widening of part of Martley Road.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Bideford, Devon.—B.C. recommended to approve the laying of a 15in. sewer from Lime Grove/Belvoir junction to Abbotsham Road. Estimated cost £3,000.

Blandford, Dorset.—B.C. recommended to submit to Ministry for approval in principle scheme prepared by W. H. Radford and Son, consulting engineers, 57 Goldsmith Street, Nottingham, for extensions and improvements at the sewage disposal works.

Bromley, Kent.—B.C. recommended to approve scheme for the raising of kerbs in parts of Plaistow Lane, Widmore Green and Widmore Road and installation of catchpits in Sundridge Avenue. Estimated cost £2,000.

Dewsbury, Yorks.—B.C. recommended to invite tenders, subject to Ministry approval, for works necessary at the Mitchell Laithes sewage works (involving the supply of machinery and equipment and civil engineering work in providing screens, channels and tanks). Estimated cost £11,460.

Guildford, Surrey.—B.C. recommended to invite tenders for the piping in of the ditch adjacent to the Stoughton Recreation Ground.

Keswick, Cumb.—U.D.C. have approved a scheme for reconstruction of Keswick sewage disposal works at a cost of £55,700. The approval of the Ministry is being sought.

Kingston-upon-Thames, Surrey.—B.C. recommended to approve for inclusion in 1961-62 programme scheme for the reconstruction of arches of smaller brick sewers from Hawks Road-Bonner Hill Road to Cambridge Road. Estimated cost £14,000; Kings Road-Thorpe Road to Lower Ham Road, £18,000; and Lower Ham Road-Kings Road to Down Hall Road, £15,000.

Leyton, Essex.—B.C. recommended to invite tenders from selected contractors for the reconstruction of the main outfall sewers and new pumping station.

Morayshire.—Scottish Department of Health have approved a sewerage scheme at Mosstodloch for C.C. Estimated cost £66,000.

Newcastle upon Tyne.—Roger Thornton, civil engineer, Lloyds Bank Chambers, Newgate Street, Morpeth, is to report on the drainage system at General Hospital. To be considered by Newcastle Regional Hospital Board.

Nottingham.—City Council have approved amended scheme for the laying of a sewer across Wollaton Park to Cambridge Road. Estimated cost £5,000.

Peterborough.—City Council recommended to prepare plans for extensions to the sewage disposal works. Estimated cost £380,000.

Scunthorpe, Lincs.—B.C. recommended to apply for sanction to borrow £13,714 for the construction of Normanby Road foul water sewer.

Stockport, Ches.—B.C. have approved the reconstruction of the Diamond Street sewer. Estimated cost £5,198.

Sutton and Cheam, Surrey.—B.C. recommended to approve the installation of air compressing machinery to be accommodated in a small surface structure sited at Trafalgar Avenue. Estimated cost £2,250.

Tunbridge Wells, Kent.—B.C. recommended to approve for inclusion in the 1961-62 programme, schemes for improvements to drainage at Ferrars Estate. Estimated cost £10,000, drainage at Sandown Park (stage 3), £20,000 and re-laying sewers at Byng Road, £10,550.

Wimborne and Cranborne, Dorset.—R.D.C. to submit to Ministry for authority to invite tenders, scheme for the drainage of 126 properties at Corfe Mullen. Estimated cost £33,700.

STREET LIGHTING

Bexley, Kent.—B.C. to prepare scheme for the modernisation of street lighting in all streets not included in the present comprehensive street lighting scheme.

Blackburn, Lancs.—B.C. recommended to approve scheme for lighting new portion of Burnley Road and improvement of lighting of Burnley Road between trunk road and the proposed diversion. Estimated cost £1,749.

Nottingham.—City Council recommended to approve the provision of improved street lighting at Woodborough Road. Estimated cost £1,445.

Richmond, Surrey.—C.C. recommended to approve scheme for the conversion of the gas lighting system on Richmond Bridge to electric lighting. Estimated cost £2,400.

Stoke-on-Trent, Staffs.—City Council recommended to apply for sanction to borrow £2,200 for improving street lighting in Ford Green Road, Norton, from Heath Road to Knypersley Road.

CONTRACTS

*Full details of the Contracts marked * will be found in our Adertisement Columns.*

BUILDING AND DECORATING

(See also Housing Schemes)

Acton, Middx.—Erection of a new pavilion, including changing rooms and washing facilities at Southfield Road playing fields, for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Acton. Tenders by Dec. 2.

Banbury, Oxon.—R.D.C. are desirous of compiling an approved list of building contractors willing to undertake new work and/or works of improvement to existing property, valued at more than £5,000. The list will be reviewed from time to time, and opportunity given for new firms to be added as the occasion arises. The Council wish by this means to maintain a high standard of workmanship and obtain firm dates for the completion of contracts. Submit names as soon as possible to the Surveyor, Bodicote House, Bodicote, nr. Banbury.

Basingstoke, Hants.—Sixteen traditional garages and the re-erection of 16 temporary garages and other ancillary works in the vicinity of Norden Close for B.C. Documents from E. Almond, borough architect, Municipal Buildings, Basingstoke. Deposit £1 1s. Tenders by Dec. 1.

***Bath.**—Second instalment of new technical college for City Council. Applications by Nov. 26. Deposit £3 3s.

Bedfordshire.—Following for C.C.: (a) Bedford College of Physical Education—erection of two gymnasia (2,800 sq. ft. each), together with swimming pool (size 75ft. by 26ft. 8in., depth 3ft. to 10ft. 6in.) and an- (b) Dunstable—erection of aged persons' cillary buildings, approximate cost £65,000; home. The building will consist mainly of two-storey work in traditional construction, comprising accommodation for 42 residents and staff, the total superficial floor area being approximately 12,700 sq. ft., approximate cost £43,000. Submit names to the County Architect, Shire Hall, Bedford, by Nov. 22. Heating engineers and electrical contractors are also invited to submit their names by the same date for consideration to tender for the engineering and electrical sub-contracts in connection with the above.

Belfast.—Following for City Council: (a) Driving of trial bores at Mountcollyer Secondary School, Limestone Road; (b) redecoration work at Park Parade Secondary School and caretaker's house; (c) erection and completion of two identical stores at Ashfield Secondary School for Girls, Holywood Road; (d) supply, delivery and fixing of metal windows and doors for extensions and alterations to Blythefield Junior and Infants' School, Blythe Street; (e) recovering parts of aluminium roofs at (i) Ashfield Secondary School for Boys, Ashmount Park; (ii) Ashfield Secondary School for Girls, Holywood Road. Documents from City Architect's Department, 40 Academy Street, Belfast, 1. Tenders by Dec. 1.

***Blackpool, Lancs.**—Supply and erection of aluminium curtain walling at Coleridge Road Depot, for the Fylde Water Board. Tenders by Dec. 13.

Blackpool, Lancs.—Taking out and replacing existing steel windows in the sun-lounge with triple glazed hardwood framed windows at the Derby Baths for B.C. Documents from Arthur Hamilton, borough surveyor, Municipal Offices, Blackpool. Tenders by Dec. 7.

Brighouse, Yorks.—Alteration of public conveniences, George Corner, for B.C. Documents from H. A. Sneezum, borough engineer and surveyor, Commercial Street, Brighouse. Deposit £1. Tenders by Dec. 8.

Carbost, Isle of Skye.—Improvements and additions to the Free Presbyterian Manse at Carbost, comprising excavator, mason and oricklayer, carpenter and joiner, plumber, plasterer, slater, painter and electrician works, on single trades or all trades basis. Applications to Peter Beaton, clerk to the Deacons' Court, Totander, Struan, Dunvegan, Isle of Skye, by Nov. 22.

Chichester, Sussex.—Construction of 28 garages including access roads, hard standings, etc., on three sites, Middleton-on-Sea, North Bersted and Southbourne, for R.D.C. Documents from the Engineer and Surveyor, East Pallant House, Chichester. Deposit £2 2s. Tenders by Nov. 30.

Cumberland.—Erection of following for C.C.: (a) Workington—old people's home (37 residents); (b) Workington—children's family unit home. Documents for one or both of the contracts from H. R. Clark, acting county architect, 15 Portland Square, Carlisle. Tenders by Jan. 3.

Desborough, Northants.—Works for provision of amenities to 28 houses for U.D.C. Documents from the Surveyor, Council Houses, Desborough. Tenders by Dec. 1.

Dewsbury, Yorks.—Erection of office accommodation for the Mental Health Service for B.C. This contract comprises the erection only of a timber-framed building, 30ft. by 20ft. by 11ft. 6in., and providing the brick foundation bases, and also includes the provision of timber-framed partitions and ceilings, wall and ceiling linings, toilet accommodation, drainage, water services, painting, etc. Documents from the Borough Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by Nov. 29.

Droitwich, Worcs.—Improvements—three cottages, The Old Smithy, Crowle, for R.D.C. Documents from R. F. Fry, surveyor, Council Offices, 31 Ombersley Street, Droitwich. Deposit £1 1s. Tenders by Nov. 22.

Dundee, Angus.—Construction of dining hall and kitchen at St. Michaels Secondary School, for City Council. (1) Excavator, concrete and brick work; (2) steel windows; (3) carpenter, joiner and ironmonger work; (4) glazier work; (5) asbestos-cement roofing; (6) roughcast work; (7) plumber work; (8) plaster, cement and tile work; (9) thermoplastic tile flooring; (10) electrical work; (11) steel roof trusses, etc. Contractors wishing to submit an all-in tender for all trades may do so and a separate abstract may be obtained on application to the City Quantity Surveyor. Documents from the City Quantity Surveyor, 21 City Square, plans seen at the Office of the City Architect, 17 City Square. Tenders by Nov. 22.

Durham.—Following for C.C.: Bishop Auckland Technical College—assembly hall seating; Castletown Modern School—(a) conversion of caretaker's cottage to changing rooms and showers, (b) heating installation; Fencehouse Modern School—conversion of classroom to biology laboratory, etc.; Seaham New Grammar Technical School—supply and erection of structural steelwork. Applications to the County Architect, South Street, Durham, by Nov. 23.

***East Suffolk.**—Alterations and extensions to Bawdsey V.C.P. School, for C.C. Submit names by Dec. 1. Tenders by Jan. 2.

Essex.—Erection of following for C.C.: (1) Harlow Civil Defence Centre. In traditional construction, estimated cost £7,750; (2) Romford Harold Hill Youth Employment Bureau. Single-storey building in load-bearing brickwork and flat roof, estimated cost £4,000. Bills of quantities are expected to be available early January, 1961. Separate applications to H. Conolly, County Architect, County Hall, Chelmsford, by Nov. 19.

Failsworth, Lancs.—Erection of 20 garages in two blocks of 12 and 8 at Day Drive site, for U.D.C. The garages will be of brick and concrete block construction with up and over type doors, together with all site and approach road works. Documents from the Engineer and Surveyor, Town Hall, Failsworth. Deposit £1 1s. Tenders by Dec. 10.

Fifeshire.—Following for C.C.: Kirkcaldy North School—sanitary accommodation, all trades; Milton of Balgonie School—sanitary accommodation, separate trades; Strathmiglo School—sanitary accommodation, all trades; two police houses, Woodside Avenue, Rosyth, all trades; conversion to library at St. Andrews, separate trades; alterations at Ferrard Road Depot, Kirkcaldy, all trades; cemetery shelter, Culross, all trades. Contractors who wish to tender for any or all of the works should apply in writing to the County Clerk, County Buildings, Cupar, by Nov. 19, specifying schedule(s) required.

Friern Barnet, Middx.—Erection on two separate sites at Alexandra Road, London, N.10, of 23 lock-up garages of precast concrete construction for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Friern Barnet, London, N.11. Tenders by Nov. 23.

Hampshire.—Fareham, Uplands New Junior School for C.C. involving preparation of foundations, concrete raft, internal finishings and attendant site works associated with the erection, by the manufacturers, of

a timber school in a proprietary system already selected by the County Council. The structure will have a floor area of approximately 11,500 sq. ft. Applications to the County Architect, The Castle, by Nov. 24. Deposit £2 2s., cheques payable to the County Treasurer. Tender documents will be available about Dec. 9 and four weeks will be allowed for tendering.

Harrogate, Yorks.—Internal plastering and joinery renovations to the Market Hall Superintendent's flat for B.C. Documents from the Borough Engineer, Municipal Offices, Harrogate. Tenders by Nov. 22.

Harrogate, Yorks.—Interior painting of the following for B.C.: (1) Municipal offices; (2) Old Town Hall, Swan Road; (3) Library, Victoria Avenue. Documents from C. E. Fellows, borough engineer, Municipal Offices, Harrogate. Tenders by Nov. 24.

Helston, Corn.—Following for B.C.: (a) Extension of T.T. market to provide additional pens for store cattle; (b) to provide shelter and tiered standing to fat cattle sale ring. Documents from the Borough Surveyor, The Guildhall, Helston. Tenders by Nov. 29.

Henley-on-Thames, Oxon.—Erection of 12 lock-up garages and hardstanding area at Gainsborough Hill for B.C. Documents from the Borough Surveyor, 33 Market Place, Henley-on-Thames. Tenders by Nov. 28.

Hereford.—Construction of a two-storey markets office building having an approximate floor area of 2,200 sq. ft. for City Council. Documents from F. Margerison, city surveyor, Town Hall, Hereford. Deposit £2 2s. Tenders by Nov. 28.

Horwich, Lancs.—Adaptation of an existing building to a public mortuary and for the provision of equipment in connection therewith for U.D.C. Documents from Surveyor, Council Offices, Horwich. Tenders by Nov. 28.

***Hove, Sussex.**— Erection of 49 beach chalets, etc., for B.C. Applications by 10 a.m., Dec. 9. Deposit £3 3s. Tenders by Jan. 23.

Hull.—Bathroom additions and improvements to 3 Rustenburg Street; 188 New Bridge Road; and 22 Steynburg Street, for City Council. Documents from Andrew Rankine, city architect, Guildhall, Hull. Deposit £2 to the City Treasurer. Tenders by Nov. 25.

Lanarkshire.—Painter work at Muir Street P. School, Motherwell, for C.C. Written application to D. G. Bannerman, county architect, 34 Albert Street, Motherwell, by Nov. 19.

Lancashire.—Builders work in connection with the erection of a timber Civil Defence Centre, Rawtenstall, for C.C. Work includes the provision of concrete foundations, drainage, services and finishes for the demountable timber building to be supplied and erected by a nominated sub-contractor already selected. Applications to the County Architect, P.O. Box No. 26, County Hall, Preston, by Nov. 21.

Leyland, Lancs.—Demolition of part of shop premises, rebuilding gable wall and making good in connection with the Church Road improvement for U.D.C. Documents from F. D. Howe, engineer and surveyor, Council Offices, Leyland. Deposit £2 2s., cheques payable to council. Tenders by Nov. 21.

Liverpool.—Construction of new private bath section, Queen's Drive Baths, Walton, for City Council. Documents from the Baths Manager and Engineer, 62 Fontenoy Street, Liverpool, 3. Tenders by Dec. 12.

Liverpool.—Alterations, repairs and decorations at 11 Freehold Street, for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by Nov. 29.

Lowestoft, Suffolk. — Part internal decorations at Dell Primary School, Oulton Broad, for B.C. Documents from the Borough Engineer's Office, 49 High Street, Lowestoft. Tenders by Nov. 25.

Manchester.—Supply, fixing and glazing of: (a) Steel windows and aluminium curtain walling and the supply of (b) aluminium doors to Civic Centre Shops, Wythenshawe, for City Council. Documents from City Architect, P.O. Box 488, Town Hall. Tenders by Nov. 30.

***Merton and Morden, Surrey.**—Erection of vehicle and plant store at Peacock Farm, for U.D.C. Tenders by Nov. 25.

Norfolk.—Construction of fire station (floor area 1,700 super. ft.) at Stalham for C.C. Submit names to the County Architect, 27 Thorpe Road, Norwich, by Nov. 19. Selected contractors will be supplied with a bill of quantities about Nov. 25.

North Riding.—Alterations and extensions at Lealholm County School, Glaisdale, near Whitby, for C.C. Documents from the County Architect, County Hall, Northallerton. Plans seen at the school or the County Hall. Tenders by Dec. 9.

Nottingham. — Alteration to the existing kitchen and the formation of a kitchen and dining hall at Player School, Bilborough, for City Council. Documents from H. McD. Lawson, acting city engineer and surveyor, The Guildhall, Nottingham. Deposit £2. Tenders by Dec. 7.

Oldham, Lancs.—Proposed conversion of Derker Mill Nursery into clinic, Prince Charlie Street for B.C. Documents from Tom Hayes and Co., architects and surveyors, 10 Clegg Street, Oldham. Deposit £2 2s. Cheques, etc., to be crossed and made payable to the Borough Treasurer, Oldham Corporation. Tenders by Nov. 29.

Pembury, Kent.—Erection of three bus shelters in Pembury for Parish Council. Documents from R. H. Chedzey, clerk, 17 Maidstone Road, Pembury. Tenders by Nov. 26.

Petersfield, Hants.—Erection of a block of eight precast concrete garages, together with the concrete base, hardstanding and drive-in on the Merchistoun estate, Horndean, for R.D.C. Documents from the Engineer and Surveyor, The Old College, Petersfield. Deposit £2 2s. Tenders by Nov. 30.

Pewsey, Wilts. — Modernisation of 5-16 Seymour Gardens, Burbage, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Pewsey. Tenders by Nov. 25.

Radnorshire.—Alterations and additions to woodwork room and piggery, new lavatory accommodation with covered way, fuel storage buildings, concrete and tarmacadam paving at Clyro Court Secondary Modern School for C.C. Documents from the County Architect, Radnorshire County Council, County Hall, Llandrindod Wells. Deposit £2 2s., cheques payable to Council and crossed and Co. Tenders by Nov. 25.

Ramsgate, Kent.—Supply and erection of 80 precast concrete chalets and 40 shelters at Western Undercliffe, for B.C. The concrete units will contain approximately 15,000 cu. ft. of reinforced concrete to be erected in three storeys and be to the overall design prepared by the borough engineer. Only those manufacturers whose resources would enable erection to be completed by Feb. 28, 1961 need apply. Applications accompanied by a brief list of similar contracts recently completed to K. F. Speakman, town clerk, Municipal Buildings, Ramsgate, by Nov. 21.

Renfrewshire. — External redecoration of houses at the following schemes for C.C.: Kilbarchan (No. 1) 78; Kilbarchan (2) 69; Kilbarchan (3) 72; Kilbarchan (4) 108; Kilbarchan (5) 104; Howwood (1) 66; Howwood (2) 89; Thornliebank (1) 50; Thornliebank (2) 128; Kilmacolm (1) 82; Kilmacolm (2) 76; Kilmacolm (3) 72; Newton Mearns (1) 116; Newton Mearns (2) 16; Barrhead 37; Eaglesham 14; Elderslie 70; Lochwinnoch 64; Linwood 10. Contractors should make application to the County Engineer, 16 Back Sneddon Street, Paisley, indicating the schemes in which they are interested, by Nov 23.

Rugeley, Staffs.—Following for U.D.C.: Erection of a 294ft. length of brick retaining wall, part along St. Michael's Drive and part fronting on to Brereton Road, Brereton. Separate tenders are also required for the construction of a 6ft. wide footpath, approximately 203ft. long, adjoining the carriageway of St. Michael's Drive. Documents from the Engineer and Surveyor's Office, 25 Anson Street, Rugeley. Deposit £2 2s. Tenders by Nov. 30.

Rugeley, Staffs.—Construction of new public conveniences in Sandy Lane, for U.D.C. Submit names to the architects, Wood Goldstraw and Yorath, 36 Cheapside, Hanley, Stoke-on-Trent. Plans seen at the Architect's Office or at the Surveyor's Office, Rugeley, during normal office hours.

Rushden, Northants.—Demolition work and the erection of store, 80ft. by 25ft., at Rushden Hall for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Rushden. Tenders by Dec. 1.

Scotland.—Demolition and building works for the reroofing and reconstruction of a meter testing building at Carpenter Street, Perth, for the North of Scotland Hydro-Electric Board. Documents from the Area Engineer, Blackfriars, Perth.

Seer Green, Bucks.—External redecoration of the sports pavilion for the Parish Council. Documents from J. A. Gibson, clerk, Seer Green Parish Council, 18 Hedleys Road, Flackwell Heath, High Wycombe. Tenders by Nov. 28.

Silsden, Yorks.—Structural alterations to the pavilion in Silsden playing fields for U.D.C. Documents from the Engineer, Council Offices, Silsden, Via Keighley. Tenders by Nov. 30.

***Southampton.** — (a) Metal windows and patent glazing, and (b) tubular structural steel frame at college of technology for B.C. Written application by Nov. 24. Tenders by Dec. 19.

Stockport, Ches.—Erection of St. Anne's R.C. Secondary School, Glenfield Road, for the Salford Roman Catholic Diocesan Trustees. The school is a four-form entry phase of a three-form entry mixed secondary modern school and has a floor area of approximately 26,000 sq. ft. It is anticipated that tender documents will be available in early December, 1960. Submit names to Arthur Farebrother and Partners, architects, 99 Seymour Grove, Manchester, 16, by noon Nov. 21.

Thetford, Norfolk.—Builders' work in the extension of a factory on the London Road industrial estate for B.C. Documents from C. L. Lister, architect, Garsett House, St. Andrew's Hall Plain, Norwich. Tenders by Nov. 26.

West Bridgford, Notts.—Construction of a public convenience at the junction of A.52, Radcliffe Road, and Trent Boulevard, for U.D.C. Work involves the construction of a brick and tile structure, 21ft. x 16ft., comprising five w.cs. and urinal. The site will be available for the commencement of the building on Jan. 23, 1961. Documents from the Engineer and Surveyor, The Hall, West Bridgford. Deposit £2. Tenders by Jan. 11.

West Riding. — Adaptations to form toilet accommodation at Spenborough Millbridge Upper School for C.C. Documents from the Divisional Architect, Flint Street, Huddersfield. Tenders by Dec. 12.

West Riding.—General builders' work in connection with the provision of office accommodation for Medical Officer and Youth Employment Service, Baghill House, Walker Gate, Pontefract, for C.C. Documents from the Divisional Architect, Bishopgarth, Westfield Road, Wakefield. Tenders by Dec. 19.

Whitby, Yorks. — Conversion of siesta stoves into open fireplaces in 43 prefabricated bungalows (Contract 232), for U.D.C. Applications to the Engineer and Surveyor, Council Offices, St. Hilda's Terrace, Whitby.

Whitchurch, Salop.—Alteration of public abattoir to provide a new slaughter hall including the installation of electrical wiring and overhead track together with other ancillary works for U.D.C. Documents from the Engineer and Surveyor, Pauls Moss, Dodington, Whitchurch. Deposit £2 2s., cheque payable to council. Tenders by Dec. 2.

***Widnes, Lancs.**—Erection of 4 classrooms at Oakfield County Primary School, for B.C. Deposit £2 2s. Tenders by Dec. 5.

Wimbledon, Surrey.—Reconstruction, alteration and additions to the Civil Defence Centre in Queen's Road for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Wimbledon, S.W.19.

Worksop, Notts.—Removal of a fire escape and the construction of a reinforced concrete balcony on the western wall of the Town Hall for B.C. Documents from Borough Engineer, Park House, Worksop. Tenders by Nov. 22.

CLOTHING AND TEXTILES

Birkenhead, Ches.—Supplies for the 12 months ending March 31, 1962 for B.C.: Uniform clothing; fire extinguishers; refills and hose reels. Documents from the Chief Fire Officer, Fire Brigade Headquarters, Whetstone Lane, Birkenhead. Tenders by Nov. 28.

***Bolton, Lancs.**—Supply police clothing for B.C. Tenders by Dec. 10.

Bury, Lancs.—Supply of overall clothing for employees of cleansing department for B.C. Documents from Director of Public Cleansing, Town Hall, Bury. Tenders by Nov. 26.

Great Yarmouth, Norfolk. — Supply of uniform clothing for 1961 for B.C. Documents from the General Manager and Engineer, Transport Offices, Caister Road, Great Yarmouth. Tenders by Nov. 30.

Scarborough, Yorks.—Supply of uniforms for certain officials and other employees in the service of the corporation, for B.C. Documents from the Town Clerk's Office, Town Hall, Scarborough. Tenders by Nov. 24.

Southend-on-Sea, Essex.—Supply of the following for B.C.: 470 suits of navy blue drill overalls. X3111 or similar quality, comprising S.B. jacket and B.B. trousers, with detachable buttons and with "S.S.C." embroidered in 1in. red lettering on each side of jacket collar and at top of bib. Complete list of sizes will be supplied to the successful tenderer. Documents from the Director of Public Cleansing, 95 London Road, Southend-on-Sea. Tenders by Dec. 5.

Sunderland, Dur.—Supply of transport uniform clothing for 1961 for B.C. Documents from the Central Purchasing Department, Hylton Road, Sunderland. Tenders by Nov. 23.

DEMOLITION

***Dorking, Surrey.**—Demolition of properties at Church Gardens, Barley Mow Gardens and Orchard Road, for U.D.C. Tenders by Dec. 7.

Newport, Mon.—Demolition of buildings in Granville Street, comprising 90,000 cu. ft., and the construction of a lorry park, area 3,600 sq. yd. approximately, on the prepared site for B.C. Documents from Borough Engineer, Civic Centre, Newport, on the production of the Borough Treasurer's receipt for £2 2s. Tenders by Nov. 30.

Saltash, Corn.—Demolition of 47 and 48 Fore Street (Contract 2), for B.C. Documents from A. de Barr, borough engineer, Church House, Saltash. Deposit £2 2s. crossed cheque. Tenders by Dec. 1.

Sunderland, Dur.—Demolition of 207 properties in the Parade area for B.C. Documents from the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £1 1s., cheques payable to Sunderland Corporation. Tenders by Nov. 26.

***Thurrock, Essex.**—Demolition work at St. Chad's Road and Christchurch Road, Tilbury, for U.D.C. Tenders by Nov. 22.

West Riding. — Demolition of the stone-built properties, 77-81 Bondgate, Otley, and protective works to the adjoining property for C.C. Documents from the Assistant County Surveyor, "Croft House," Carleton Road, Skipton. Deposit £1 cheques, etc., crossed and made payable to the West Riding Treasurer. Tenders by Nov. 23.

ELECTRICAL

Croydon, Surrey.—Re-wiring the electrical installation at the Oval School, Oval Road, for B.C. Documents from Borough Engineer, Town Hall, Croydon. Tenders by Nov. 30.

Manchester. — Electrical installations as follows: Contract 330/331 31 houses and four shops, Partington, for City Council. Documents from Director of Housing, Town Hall, Manchester, 2. Tenders by Nov. 24.

Middlesex. — Electrical installation work at Deephams Sewage Works, Edmonton, N.9 (contract sub.39) for C.C. The installation comprises the cabling for distribution from a power house to the various units on the sewage works. It includes internal wiring, lighting and heating of the power house and other buildings. The contract also covers for the supply of miscellaneous items of electrical plant, and for an automatic telephone exchange. The electricity supply will be 460v/230v d.c. and 415v/240v a.c., and tenderers are required to be experienced in handling d.c. equipment. Documents from J. D. and D. M. Watson, consulting engineers, 67 Tufton Street, S.W.1. Deposit £10 10s., cheques payable to J. D. and D. M. Watson. Tenders by Nov. 24.

FENCING

Lancashire.—Following for C.C.: Supply and erection of 594 yd. run of wrought iron railings at Nelson Secondary Technical School; supply, erection and painting of approximately 1,071 yd. run of wrought iron railings, and cleaning off and repainting of approximately 123 yd. run of existing railings at Leigh Manchester Road County Secondary School. Applications to the County Architect, P.O. Box No. 26, County Hall, Preston, by Nov. 21.

Liverpool.—Supply and fixing iron railing at Grant Avenue, Day Nursery, for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by Dec. 5.

GAS AND WATER SUPPLY

Ballymoney, Antrim. — Pressure grouting sub-contract for the Altnahinch Dam for R.D.C. The grouting apron may be up to 4,000ft. long and varying in depth from 20ft. to 180ft. Documents from Waterhouse and Rounthwaite, consulting engineers, 165 Westmorland Road, Newcastle upon Tyne, 4. Deposit £5 cheque. Tenders by Nov. 28.

***Belford, Northumb.**—Construction of a 120,000-gallon reservoir at Glororum, near Bamburgh, laying two miles of spun-iron main, and tidal repair work to the surrounds of two sea outfalls at Seahouses for R.D.C. Deposit £5 5s. Tenders by Dec. 10.

***Cardiff.**—Construction of Llandegfedd impounding reservoir, for City Council. Tenders by Dec. 2 (extension of date).

Cheadle, Staffs. — Laying of approximately 400 lin. yd. of 3in. diameter cast-iron water main with Tyton joints, together with ancillary works, at Moss Lane (contract 319) for R.D.C. Documents from Engineer and Surveyor, Council Offices, Leek Road, Cheadle. Deposit £2. Tenders by Nov. 28.

***Church Stretton, Salop.** — Laying water mains, contract I, for U.D.C. Deposit £5 5s. Tenders by Dec. 19.

***Cirencester, Glos.**—Laying water mains, etc., eastern area, regional water supply scheme, for R.D.C. Deposit £5 5s. Tenders by Dec. 16.

***Cornwall.**—Construction of Ludgvan and Trevelyan service reservoirs, Drift water scheme, contract 8, for the West Cornwall Water Board. Deposit £2 2s. each reservoir. Tenders by Dec. 19.

***Cornwall.** — Pipelaying, Maldron water scheme, contract 13, for the West Cornwall Water Board. Deposit £5. Tenders by Dec. 19.

***Huddersfield, Yorks.**—Supply of pipes and castings for B.C. Tenders by Dec. 5.

Kerry, Eire.—Supply, erection and installations of pumping plant for the new water supply scheme at Moyvane for C.C. The contract provides for the supply and delivery and/or erection and installation of two electrically driven high-lift centrifugal pumping sets, each capable of raising 22 gallons per minute against a static head of approximately 197ft., through 10,565 lin. ft. of 4in. diameter rising main, together with one electrically driven chlorinator, automatic control gear, pipework, valves, fittings, gauges and all accessories. Documents from Ed. Ralph Ryan, consulting engineer, 1 Montpellier Terrace, Galway. Deposit £10 10s. Tenders by Dec. 5.

Limavady, Londonderry. — Supply and delivery of pipes, specials and valves for the Dernaflaw water extension scheme, for R.D.C. Documents from Richard J. Carr, clerk of Council, Council Offices, Limavady. Tenders by Nov. 21.

***Staffordshire.**—Supply of steel pipes (contract 44), sluice valves and air valves (contract 46), for Staffs. Potteries Water Board. Tenders by Dec. 5.

***Tyldesley, Lancs.**—Provision and installation of a filtration chlorination and water heating plant at Union Street Baths for U.D.C. Tenders by Dec. 10.

Waterford, Eire. — Supply f.o.r. Kill, Co. Waterford, and erection of pumps and motors for the Kill and Bonmahon water supply scheme, for C.C. The plant shall consist of: Two electric pumping sets each consisting of a centrifugal pump and electric motor. Each set shall be capable of delivering 20 gallons of filtered water per minute. 380 volt, 50 cycle, 3 phase, A.C. electric power will be available at the site. Documents from H. N. Walsh and Partners, consulting engineers, 47 Sunday's Well, Cork. Deposit £2 2s. Tenders by Dec. 14.

***Welton, Lincs.** — Laying water mains at Cherry Willingham and Reepham, contract 2 for R.D.C. Deposit £3 3s. Tenders by Dec. 1.

Witney, Oxon.—Laying of 3,933 lin. yd. of 3in. asbestos-cement water mains, complete with sluice valves, hydrants and air valve at Yelford, for R.D.C. Documents from the Engineer and Surveyor, 36 Market Square, Witney. Deposit £2 2s. Tenders by Nov. 30.

Yeovil, Som. — Re-laying of approximately 1,050yd. of 3in. asbestos-cement water main and ancillary works at Hardington Marsh, near Yeovil for R.D.C. Documents from M. Daggett, engineer, 26 Kingston, Yeovil. Deposit £2 2s., cheques payable to Council. Tenders by Dec. 7.

HARBOURS, PIERS AND SEA DEFENCE WORKS

***Scotland.**—Supply and installation of pumping equipment at a P.O.L. storage depot to be built at Campbeltown for N.A.T.O. Applications by Nov. 28. Tenders by Feb. 28.

***Scotland.**—Supply and installation of jetty oil flow-boom equipment at a P.O.L. storage depot to be built at Campbeltown for N.A.T.O. Applications by Nov. 28. Tenders by Feb. 28.

***Skegness, Lincs.**—Sea defence works at Winthorpe Avenue for the Lincolnshire River Board. Deposit £5 5s. Tenders by Dec. 19.

HEATING AND VENTILATING

Armagh.—L.p.h.w. heating, hot, cold and mains water and petrol pump installations at R.U.C. county headquarters, Palace Row, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Nov. 28.

Durham. — (a) Heating and hot water installations; (b) electrical installations at High Conisclife New County Junior and Infant School for C.C. Applications to the County Architect, South Street, Durham, by Nov. 23.

Staines, Middx. — Installation of approved fire appliances and hot water systems to 63 houses at Stanwell for U.D.C. Documents from the Engineer and Surveyor, Shortwood House, 240 London Road, Staines. Deposit £2 2s. Tenders by Nov. 25.

West Riding. — Installation of new heating boiler at Lydgate C.E. School for C.C. Documents from A. Beardsell, 35 Kirkgate, Huddersfield. Tenders by Nov. 19.

HOUSING SCHEMES

Barnsley, Yorks. — Following one-bedroom bungalows at St. Helen's housing estate (contract S.H.5) for B.C.: One block of seven; three blocks of six; one block of three. Documents from the Borough Engineer, Town Hall, Barnsley. Deposit £2 2s. Tenders by Nov. 30.

Basingstoke, Hants.—Three two-bedroom bungalows in a terrace, and 25 garages at St. Michael's Road, South Ham, for C.C. Documents from Eric Almond, borough architect, Municipal Buildings, Basingstoke. Deposit £2 2s. Tenders by Dec. 6.

Belfast.—Thirty-six flats at Fortwilliam Parade for City Council. Documents from the Housing Architect's Department, 97 Townsend Street, Belfast, 13. Deposit £5. Cheques payable to Belfast Corporation. Tenders by Nov. 29.

Birkenhead, Ches. — Following for B.C.: (a) Thingwall Hall (Contract 1), 84 flats; (b) Robert Street area, 12 garages, 11 houses, 10 shops with maisonnettes over. Documents from the Borough Architect, 3 Conway Street, Birkenhead. Deposit £2 2s. Tenders by Nov. 28.

***Caistor, Lincs.**—Six houses at Nettleton, for R.D.C. Deposit £3 3s. Tenders by Dec. 9.

Cardiff.—Seventeen three-bedroom houses at Parracombe Crescent, Llanrumney, for City Council. Documents from City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s. Cheques payable to the Cardiff Corporation and crossed "Not negotiable and Co." Tenders by Dec. 7.

Castle Donington, Leics. — Three pairs of three-bedroom-type houses in Tylers Road, Belton, for R.D.C. Documents from McCarthy Collings and Co., architects, 187 Forest Road, Coalville. Deposit £2 2s., cheque payable to Council. Tenders by Dec. 19.

Chesterfield, Derbys. — Forty-four traditional-type brick-built dwellings on the Boythorpe estate for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Chesterfield. Deposit £2 2s. Tenders by Dec. 5.

Daventry, Northants. — Following for R.D.C.: 10 bungalows at Welton, two bungalows at Crick. Documents from H. Bonsor, engineer and surveyor, Council Offices, Church Walk, Daventry. Deposit £3 3s. Tenders by Nov. 28.

East Suffolk.—One pair of police houses with outbuildings at Bungay, for the Standing Joint Committee. Submit names to E. J. Cundliffe, County Architect, County Hall, Ipswich, by Nov. 21. Builders selected will be furnished with specifications and drawings on or about Nov. 25. Builders not selected will be notified at the same time. Tenders by Dec. 28.

Ely, Cambs.—Erection of seven bungalows and the demolition of 49 Silver Street for U.D.C. Documents from John G. Shilston, engineer and surveyor, Urban Council Offices, Lynn Road, Ely. Deposit £3 3s. (cheques payable to Council). Tenders by Dec. 3.

***Failsworth, Lancs.** — Fifty dwellings at Brierley Avenue, phase II, for U.D.C. Deposit £5 5s. Tenders by Dec. 10.

Fermanagh.—One forester's cottage, garage and office at Ely Lodge Forestry Centre, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Deposit £2. Plans also seen at Ministry of Labour and National Insurance, Local Office, Browne Square, Enniskillen. Tenders by Nov. 23.

Great Yarmouth, Norfolk. — Following at Magdalen College Estate, Gorleston, for B.C.: (a) 16 type 4H/5 houses, Stuart Close (rear of shops); (b) four type 4H/5 houses, and 16 type 4F/9 and 10 flats, Wadham Road. Documents from the Borough Engineer's Office, Town Hall, Great Yarmouth. Tenders may be submitted for one or both groups of dwellings. Deposit £2 2s. Tenders by Dec. 9.

Hull.—84 dwellings and 27 garages, Boothferry Estate, for City Council. Documents from A. Rankine, city architect, Guildhall, Hull. Deposit £2 to City Treasurer. Tenders by Nov. 25.

Manchester. — Sixty dwellings at Hazel Grove, and Bramhall (Contract 250B), for City Council. Documents from the Director of Housing, Town Hall, Manchester, 2. Tenders by Dec. 5.

Marple, Ches.—Following Homeville traditional houses and flats for U.D.C.: (1) 12 flats at Ernocroft Road, Marple Bridge, and (2) 1 pair of 3-bedroom houses at Cote Green Road, Marple Bridge. Documents from the Surveyor, Council Offices, Marple. Deposit £2 2s. Tenders by Dec. 9.

Pembroke.—2 pairs of OP7 type and 2 pairs of OP7A type bungalows together with all necessary siteworks complete at St. Florence, for R.D.C. Documents from the architects, J. Owen Parry and Lewis, Arcade Chambers, Ammanford, or J. A. Campodonic (Clerk of the Council), Tudor House, Pembroke. Deposit £3 3s. Tenders by Nov. 24.

Pershore, Wilts.—Four dwellings at Wick and also two dwellings at Fladbury for R.D.C. Applications to W. G. Trapp, clerk of the Council, Council Offices, Pershore, by Nov. 21. Deposit £2 2s. Drawings can be seen on application to the architects, Messrs. Pemberton and Bateman, 21 Vine Street, Evesham. Deposit £2 2s. Tenders by Dec. 12.

Portsmouth. — Following for City Council: (a) Two flats—Chichester Road; (b) 17 flats and houses—Wymering Lane; (c) 12 flats—Lake Road; (d) eight houses—Malins Road. Contractors should apply to the City Architect, 1 Western Parade, Portsmouth, stating in which contract(s) they are interested, by Nov. 21. Deposit £1 each contract. It is a

condition of tendering that the contractor shall, at the date of his tender, have in his employment not less than one indentured apprentice to every eight craftsmen who were employed by him on the previous January 1.

Rugby, War.—Two-storey block of four flats at Norman Road, Newbold Glebe estate for B.C. Documents from the Borough Surveyor, Burford House, Rugby. Deposit £2 2s. Tenders by Nov. 22.

***St. Helens, Lancs.**—Seventy-five dwellings, Greenbank No. 2 redevelopment site, contract 2160, for B.C. Deposit £2 2s. Tenders by Dec. 16.

***St. Helens, Lancs.**—One hundred and five dwellings, Burrows Lane site, contract 2161, for B.C. Deposit £2 2s. Tenders by Dec. 16.

Salisbury and Wilton, Wilts. — Two bungalows, together with site works, including drains, water mains, paths and fencing at Compton Chamberlayne, for R.D.C. Documents from C. S. Brown, clerk of the Council, Council Offices, 26 Endless Street, Salisbury. Deposit £2 2s. Plans seen at the offices of Bothams and Brown, architects, 32 Chipper Lane, Salisbury. Tenders by Dec. 8.

Settle, Yorks. — Two pairs of three B.R. houses and two garages at Clapham for R.D.C. Documents from the Engineer and Surveyor, Town Hall, Settle. Deposit £2 2s. Plans seen either at the office of the Council's Engineer and Surveyor or at the office of J. Norman Spencer, architect, Dean House, Piccadilly, Bradford. Tenders by Dec. 2.

Shipley, Yorks.—Construction in brick with precast concrete upper floors and timber and tiled roofs of five blocks of three-storey flats comprising 42 one-bedroom and 21 two-bedroom flats, eight bungalows and 21 garages at Rochester Street, together with attendant site works and drainage for U.D.C. Documents from the Surveyor, Town Hall, Shipley. Deposit £5 5s. Tenders by Dec. 9.

Sodbury, Glos.—Twelve houses at Windsor Drive, Yate, together with drainage, paths, fences and ancillary works (Contract 264), for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Chipping Sodbury, Bristol. Tenders by Dec. 5.

South Cambridgeshire. — Following for R.D.C.: (a) Two houses and two bungalows, Barrington: (b) eight houses and four bungalows, Fowlmere. Applications to the Council's Architect and Surveyor, County Hall, Hobson Street, Cambridge. Deposit £2 2s. each scheme (cheques payable to the Council). Tenders by Nov. 22.

Sutton-in-Ashfield, Notts. — Following for U.D.C.: (a) Carsic Lane housing scheme No. 20 —six pairs of two-bedroom bungalows and 16 three blocks of one-bedroom bungalows (60 bungalows in all) on the Carsic Lane estate; (b) central redevelopment area, section 2—two blocks, each of three-storey construction, and each containing 18 flats (36 flats in all); at the junction of Wood's Hill/Brook Street. Contractors may tender for both contracts or any particular contract. Applications to Warner and Dean, architects and surveyors, Mansfield Road, Sutton-in-Ashfield, by mid-day, Nov. 23. Deposit £2 2s. crossed cheque, payable to Council. Tenders by Dec. 14.

Trowbridge, Wilts.—Following for U.D.C.: (1) Twenty-five garages and forecort, Grove Site; (2) six bungalows and site works, Islington; (3) two houses and nine garages, Lambrok Road. Applications to the Clerk of the Council, Town Hall, Trowbridge, by Nov. 21. Deposit £2 2s.

MATERIALS AND SUPPLIES

Antrim—Supply of bitumen, tar and other road surface dressing materials for year commencing April 1, 1961, for C.C. Documents from the County Surveyor, County Courthouse, Crumlin Road, Belfast. Tenders by Nov. 25.

Belfast.—Supplying the following during the year 1961 for Belfast City and District Water Commissioners: Iron pipe castings; hardware; paints, etc.; rope yarn, etc.; cast-iron, surface boxes; brushes; timber; gunmetal couplings, stopcocks, etc.; indiarubber hose, boots, etc.; hats and caps; uniform clothing; protective clothing. Documents from the Secretary, Water Office, Belfast. Tenders by Nov. 25.

***Blackpool, Lancs.**—Supply of materials for Fylde Water Board. Tenders by Dec. 9.

Breconshire.—Supply of furniture items to primary and secondary schools throughout the county for C.C. The items required include tables and chairs for juniors and infants, tables and chairs for teachers, steel cupboards, blackboards and easels, step ladders, clocks, mats, rest beds, curtains. Documents from the County Architect, Rhyd Offces, Brecon. Tenders by Dec 16.

Devonshire.—Supply of roadmen's tools during 1961 for C.C. Documents from County Supplies Officer, Pinhoe Road Trading Estate, Whipton, Exeter.

Esher, Surrey.—Supply of materials for C.C. (refer to our issue of Nov. 10, page 747).

***Finsbury.**—Supply of materials for B.C. Tenders by Jan. 2.

Kent.—Supply of materials for C.C. (refer to our issue of Nov. 10, page 748).

Larne, Antrim.—Supply of: (1) Grates for 100 dwellings; (2) sanitary fittings for 100 dwellings for B.C. Documents from T. J. M. Davison, housing consultant, 47 Station Road, Larne. Tenders by Nov. 24.

Malden and Coombe, Surrey.—Supply of materials for B.C. (refer to our issue of Nov. 10, page 746).

***Norfolk.** — Supply of materials for C.C. Tenders by Dec. 7.

Southport, Lancs.—Supply of materials for B.C. (refer to our issue of Nov. 10, page 748).

Tyrone.—Supply for the year 1961 of general stores, including tools, oils and concrete products, etc. for C.C. Documents from, and samples inspected at, Repair Depot, Dungannon. Tenders by Dec. 1.

***Wandsworth.** — Supply of materials for B.C. Tenders by Dec. 16.

MISCELLANEOUS

***Birmingham.**—Erection of separation incineration plant at Castle Bromwich, for City Council. Tenders by Jan. 23.

PLANT AND MECHANICAL TRANSPORT

Bideford, Devon. — Supply of following for B.C.: (1) Ferguson trailer; (2) three "Clyde-built" tractor cabs; (3) 5-cwt. motor van. A 3-ton Thornycroft tipping lorry is offered in part exchange. Documents from the Borough Surveyor, Municipal Buildings, Bideford. Tenders by Nov. 25.

***Birmingham.**—Supply of two overband magnetic tin separators for City Council. Tenders by Dec. 1.

***Birmingham.**—Supply of one horizontal milling machine for City Council. Tenders by Dec. 1.

Cannock, Staffs.—Supply of a new refuse collection vehicle of the rear loader type of 16 to 18 cu. yd. capacity for U.D.C. Particulars from the Cleansing and Transport Superintendent, Church Street, Cannock.

***Castleford, Yorks.** — Supply of J.C.B. 4 hydraulic excavator, for B.C. Deposit £2 2s. Tenders by Dec. 5.

Dublin, Eire.—Supply f.o.q. Dublin, of six complete dragline excavators for Office of Public Works. Documents from Office of Public Works, 51 St. Stephen's Green, Dublin. Tenders by Nov. 22.

Easington, Dur.—Supply of one Austin 30cwt. van-type LD2, in primer, petrol engine, and with passenger seat for R.D.C. The Council offer in part-exchange a 1949 Austin 25cwt. three-way van, which may be inspected by arrangement with the Council's Engineer and Surveyor. Tenders for the supply of this vehicle, quoting the allowance to be made for the part-exchange offer, in a plain sealed envelope endorsed "Van," to T. Agar, clerk of the Council, Council Offices, Easington, by Nov. 28.

Grantham, Lincs. — Supply of a mobile loading shovel, suitable for use on a refuse disposal tip dealing with 25 to 30 tons of refuse daily for B.C. Details from Chief Public Health Inspector, 16 St. Peter's Hill, Grantham. Tenders by Dec. 5.

Manchester.—Supply of one David Brown agricultural tractor, model 900, at Langho Colony, near Blackburn, for City Council. Documents from the Secretary/Steward at the Colony.

***Stroud, Glos.** — Supply of tractor-drawn gully emptier for U.D.C. Tenders by Dec. 7.

PLAYING FIELDS, PARKS, ETC.

***Middleton, Lancs.** — Construction of Worcester Road children's playpark for B.C. Deposit £2 2s. Tenders by Dec. 10.

Somerset.—Preparation of playing fields at the following new schools shortly to be erected for C.C.: Weston-super-Mare Bournville County Secondary School; Wells Blue Grammar School; Cheddar Secondary Modern School; Shepton Mallet Secondary Modern School; Midsomer Norton Secondary Modern School; Taunton Musgrove Secondary Modern School. Contractors wishing to tender for any or all of these projects should apply to W. J. Deacon, chief education office, The County Education Office, Trull Road, Taunton, by Nov. 30. Specifications and invitations to tender will be sent to selected contractors from time to time as they become available.

RIVER AND FLOOD PREVENTION WORKS

***Eton, Bucks.** — Clearing of Horton and Wraysbury public watercourses, for R.D.C. Deposit £1 1s. Tenders by Dec. 12.

Surrey. — Improvement of River Wandle (approx. ¼-mile) within Mitcham Borough and Merton and Morden U.D., for C.C. Work comprises reconstruction of bridges, construction of reinforced concrete channels and retaining walls, widening and deepening existing river channel, etc. Documents from County Engineer, County Hall, Kingston-upon-Thames. Tenders by Dec. 5.

ROADS, BRIDGES AND SITE WORKS

***Abingdon, Berks.**—Making-up of North Avenue and West Avenue for B.C. Tenders by Dec. 2.

***Basildon, Essex.**—Construction of road 6, phase 2, contract E.136, for the Development Corporation. Deposit £5 5s. Tenders by Dec. 5.

Bridgend, Glam.—Section 1 of Heronstone Lane improvement for U.D.C. Documents from D. J. Amos, engineer and surveyor, Council Offices, Glan-Ogwr, Bridgend. Deposit £2 2s. Tenders by Dec. 3.

***Buckley, Flints.** — Private street works, Tabernacle Street and Bistre Avenue, for U.D.C. Deposit £2 2s. Tenders by Dec. 6.

Cambridge. — Construction of roads and sewers at Arbury Road housing estate, North site, contract Q.6, for City Council, comprising: 20,400 sq. yd. of hot rolled gravel asphalt carriageway; 3,400 lin. yd. of kerb; 2,550 lin. yd. of soil and surface water sewer, 9in.-30in. diameter, and other ancillary works. Documents from City Engineer and Surveyor, The Guildhall, Cambridge. Deposit £5 5s. Tenders by Dec. 12.

***Cambridge.**—Two all-weather tennis courts at Newmarket Road for B.C. Tenders by Nov. 25.

***Cambridgeshire.** — Site investigation for bridge at Histon, Cambridge, for C.C. Tenders by Dec. 10.

Cardiff.—Following for R.D.C.: (1) Access road, Smithies Avenue to Bowling Green, Sully, consisting of approximately 350 sq. yd. of pitched carriageway, including kerbing and fencing; (2) footpath, Manor Way to Parc Caedelyn, Whitchurch, consisting of approximately 90 sq. yd. of tarpaving, including seeding and fencing. Documents from S. P. Youldon, engineer and surveyor, 20 Park Place, Cardiff. Deposit £2 2s. each contract. Tenders by Nov. 24.

***Caterham and Warlingham, Surrey.**—Resurfacing of carriageways and footpaths to various roads at Warlingham, for U.D.C. Tenders by Dec. 9.

Chigwell, Essex. — Minor improvement works, comprising approximately 220 lin. yd. kerbing; 270 sq. yd. make-up in carriageway; 400 sq. yd. make-up in footways; and incidentals at Albion Hill, Loughton, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Old Station Road, Loughton. Deposit £2 2s. Tenders by Dec. 5.

Coleraine, Londonderry. — Site works to Millburn housing site extension, for B.C. The contract includes for all necessary excavation work to carriageways and footpaths, the laying of approximately 1,000 lin. yd. of sewer, varying in diameter from 6in. to 15in., together with the construction of 18 manholes, the laying of approximately 510 lin. yd. of 4in. dia. water main, 710 lin. yd. of 6in. dia. gas main, 650 lin. yd. of 4in. dia. gas main, the pitching and blinding of 6,800 sq. yd. of carriageway, and the laying of 2,000 lin. yd. of concrete kerb foundation, together with any other works necessary for the due and proper completion of the contract. Documents from the Borough Surveyor, 54 Stone Row, Coleraine. Deposit £5 5s. Tenders by Nov. 26.

***Colne, Lancs.**—Improvement of Keighley Road (A.6068), for B.C. Deposit £5. Tenders by Nov. 30.

Crawley, Sussex.—A.23 trunk road improvement, junction of Manor Royal and Martyrs Avenue, for U.D.C., consisting of a short length of dual carriageway and preparatory work for a traffic signal system, together with clearance, accommodation, and ancillary works. Documents from the Engineer and Surveyor, Goffs Park House, Horsham Road, Crawley. Tenders by Dec. 1.

Dagenham, Essex. — Street works—Egbert Road, Goring Road and Goring Road North for B.C., comprising approximately 2,500 sq. yd. of reinforced concrete carriageway with kerb, paving and surface water sewer. Documents from the Borough Engineer and Surveyor, Civic Centre, Dagenham. Deposit £2 2s. Tenders by Nov. 28.

***East Suffolk.**—Making-up Windrush Road, Kesgrave (contract 38), for C.C. Deposit £2 2s. Tenders by Dec. 5.

***Egham, Surrey.**—Widening of Station Road (B.388), part I, for U.D.C. Tenders by Dec. 5.

***Epsom and Ewell, Surrey.** — Footpaths, kerbing and surfacing works at Ruxley Farm housing estate, for B.C. Deposit £2 2s. Tenders by Dec. 5.

Guildford, Surrey.—Construction of Quarry Street relief road, approximately 500yd. long with 33ft. carriageway and 8ft. 6in. footways, together with demolition, site clearance and drainage works for B.C. Documents from Borough Engineer and Surveyor, Municipal

Offices, High Street, Guildford. Tenders by Nov. 28.

***Hale, Ches.**—Reconstruction of parts of Chapel Lane and Grove Lane, for U.D.C. Deposit £2. Tenders by Dec. 1.

Halesowen, Staffs.—Improvement of Lodgefield Road, including approximately 950 lin. yd. of precast concrete kerbs, 3,780 sq. yd. of carriageway surfacing, 530 lin. yd. of 9in. storm water sewer, and other incidental works, in connection with the construction of roads and sewers for B.C. Documents from Borough Engineer and Surveyor, Council House, Halesowen. Deposit £2 2s. Tenders by Nov. 26.

Hayes and Harlington, Middx.—Private street works, Bedford Avenue, Cheddar Way, Hollywood Gardens, Selan Gardens, Yeading Gardens and Princes Park Circle for U.D.C., comprising reinforced concrete carriageway (approximately 304 sq. yd.) in Yeading Gardens, surfacing with fine cold asphalt in Bedford Avenue (approximately 1,030 sq. yd.), and Princes Park Circle (approximately 625 sq. yd.), and minor repairs to concrete carriageways, together with footway works in all streets. The length of the streets varies between 70yd. and 250yd. Documents from Engineer and Surveyor, Town Hall, Hayes. Deposit £2 2s. Tenders by Dec. 19.

Hemel Hempstead, Herts.—Construction of roads and sewers at Highfield for B.C. Works include approximately 7,500 sq. yd. of lean-mix concrete and bituminous macadam carriageway; 2,800 lin. yd. of concrete kerbing; 1,100 lin. yd. of concrete pipe surface water sewers (9in. and 12in.); 700 lin. yd. of stoneware pipe foul water sewers (6in. and 9in.); 37 precast concrete manholes. Documents from A. H. Turner, borough engineer, High Street, Hemel Hempstead. Tenders by Nov. 28.

Hereford.—Canon Pyon Road improvement for City Council, comprising the excavation for the construction of approximately 2,500 sq. yd. of tarmacadam carriageway with pitched foundation, drainage, and all incidental works. Documents from F. Margerison, city engineer and surveyor, Town Hall, Hereford. Deposit £2 2s. Tenders by Nov. 28.

Hornchurch, Essex. — Emptying of roadside gullies within the urban district for the period ending March 31, 1961, for U.D.C. Documents from Engineer and Surveyor, Council Offices, Billett Lane, Hornchurch. Tenders by Nov. 30.

***Horsham, Sussex.**—Stage II roadworks at industrial site, Redkiln Way, for U.D.C. Applications by first post, Nov. 28.

Kerry, Eire.—Trial rock borings at the new bridge site, Castlemaine, Co. Kerry, for the Government of Northern Ireland. Documents from the Secretary, Office of Public Works, 51 St. Stephen's Green, Dublin. Tenders by Dec. 16.

Kingston - upon - Thames, Surrey. — Laying artificial stone paving and kerbs for a period of 12 months on a schedule of rates basis for B.C. Documents from Borough Surveyor, Guildhall, Kingston-upon-Thames. Deposit £2 2s. Tenders by Nov. 28.

***Leatherhead, Surrey.**—Improvement works at Lower Road, Great Bookham, for U.D.C. Tenders by Nov. 24.

***Longdendale, Ches.**—Making-up Moorfield Street and King Street for U.D.C. Deposit £2. Tenders by Dec. 19.

Luton, Beds. — Completion of roadworks in the following private streets: (1) Rosslyn Crescent (part); (2) Anstee Road (part) for B.C. Documents from Borough Engineer, Town Hall, Luton. Deposit £2 2s. for each contract, cheques payable to Luton Corporation. Tenders by Nov. 28.

Maidstone, Kent.—Widening of Gatland Lane (length approximately 620yd.) to an overall width of 40ft., in hardcore and tarmacadam, and with a running surface of fine cold asphalt for B.C. Documents from Borough Engineer, Palace Avenue, Maidstone. Tenders by Nov. 28.

Manchester.—Constructing 900 sq. yd. bitumen macadam carriageway, 215 lin. yd. 9in. and 18in. diameter sewer and ancillary works, Nuthurst Road development, Moston, for City Council. Documents from City Surveyor (Room 228), Town Hall, Manchester, 2. Tenders by Dec. 5.

Mansfield Woodhouse, Notts. — Making-up of the following for U.D.C.: (a) That part of Park Hall Road, adjacent to its junction with Sycamore Road, to that with Beech Tree Avenue; (b) Melbourne Street. Documents from the Surveyor, Council Offices, Manor House, Mansfield Woodhouse. Deposit £3 3s., cheques crossed and payable to Council. Tenders by Nov. 30.

***Midhurst, Sussex.**—Roads and sewers at New Road, for R.D.C. Deposit £2 2s. Tenders by Dec. 12.

***Pontypridd, Glam.**—Advance site preparation at Ynys Corrwg housing site, Hawthorn, for U.D.C. Deposit £2 2s. Tenders by Dec. 5.

Salford, Lancs.—Moor Lane sewer reconstruction for City Council, comprising laying about 135yd. of 12in. diameter concrete pipes at an average depth of 7ft. 6in. Documents from the City Engineer and Surveyor's Office, Town Hall, Salford, 3. Tenders by Dec. 2.

Saltash, Corn.—Making-up Longview Road, St. George's Road, St. Anne's Road and Dunheved Road, which total approximately 800yd. in length, for B.C. Documents from A. De Barr, borough surveyor, Church House, Saltash. Deposit £2 2s. crossed cheque. Tenders by Dec. 29.

Shipley, Yorks.—Construction of the following streets for U.D.C.: Dock Lane, 170yd.; Avondale Mount, 83yd.; Wrose View, 190yd. Documents from the Surveyor, Town Hall, Shipley. Deposit £1 1s. Tenders by Nov. 26.

***Sunbury-on-Thames, Middx.**—Roads and sewers at housing site 21, Oakhall, for U.D.C. Tenders by Dec. 5.

Sunderland, Dur.—Following for B.C.: (a) Newcastle Road reconstruction and widening (Viewforth Terrace to electricity sub-station). Approx. 2,800 sq. yd. 8in. reinforced concrete carriageway and ancillary works; (b) Queen Alexandra Road reconstruction (Silksworth Lane to Bainbridge Avenue). Approx. 2,200 sq. yd. 8in. concrete carriageway; (c) Stoney Lane reconstruction and widening. Approx. 1,710 sq. yd. 8in. reinforced concrete carriageway. Documents from the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £2 2s. each contract. Tenders by Nov. 24.

Surrey. — Construction of 100 lin. yd. (approximately) reinforced concrete pedestrian subway, with ancillary works, under Dorking By-pass (A.24), near Goodwyns Farm estate for C.C. Documents from County Engineer, County Hall, Kingston-upon-Thames. Tenders by Nov. 26.

Wanstead and Woodford, Essex. — Reconstruction of Malford Grove (part), South Woodford, for B.C., comprising the provision and laying of approximately 4,040 sq. yd. of bitumen macadam wearing course, together with bituminous concrete regulating course, kerbing, drainage, footway and precast concrete slab, verge construction and appurtenant works. Documents from the Borough Engineer and Surveyor, Municipal Offices, Woodford, E.18. Deposit £2. Tenders by Dec. 5.

West Riding.—Playground and paths repairs at Dobcross C.E. School, for C.C. Documents from A. Beardsell, 35 Kirkgate, Huddersfield. Tenders by Nov. 19.

Wolverhampton, Staffs.—Pedestrian subway of reinforced concrete construction beneath the road junction at School Street and Salop Street, together with ramps, staircases, all interior finishes and ancillary works for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Wolverhampton. Deposit £2 2s. Tenders by Nov. 29.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

***Acton, Middx.**—Reconstruction of sewer at pumping station, Warple Way, for B.C. Tenders by Dec. 2.

***Amersham, Bucks.**—New Road, Little Kingshill, drainage scheme for R.D.C. Applications by Nov. 25. Deposit £2 2s.

Bedale, Yorks.—Construction of 1,500 lin. yd. of 18in., 15in., 12in., 9in. and 6in. surface water drains together with the construction of manholes and ancillary works for R.D.C. Documents from the Council Offices, Bedale Hall, Bedale, or W. K. Rodwell, consulting engineer, 40 North Street, Wetherby. Deposit £2 2s., cheque payable to Council. Tenders by Dec. 12.

Birmingham.—Following at Minworth new works for the Birmingham Tame and Rea District Drainage Board: Sub-contract for the manufacture, supply, erection on prepared concrete work (tank walls) provided by the main contractor when chosen, setting to work and maintenance for a period of 12 months after being brought into use of four combined sludge scrapers and thickeners and four transfer carriages, all running rails, racks and retaining fixtures generally as described in the specification, the sub-contractor supplying all labour for erection and commissioning of the plant and all materials and equipment necessary for erection, including lifting gear and scaffolding, huts for housing workers and storage facilities. The scrapers are to be used on a battery of 46 secondary sludge digestion tanks, each of which is 165ft. long by 45ft. wide, with a varying depth from 12ft. 6in. to 14ft. 9in. Documents from the Engineer to the Board, Rookery Park, Erdington, Birmingham, 24. Tenders by Jan. 30.

Bradfield, Berks.—Following sewer extension at Bradfield Village for R.D.C.: Laying of approximately 423 lin. yd. of 6in. diameter glazed stoneware pipes; 47yd. 6in. diameter cast-iron pipes and 232 lin. yd. of 4in. cast-iron rising main, together with the construction of 15 manholes, one pump house for pumping plant and addition of screening and humus chambers to the existing sewage disposal plant. Documents from the Council's Offices, 26 Bath Road, Reading. Deposit £3 3s. Plans seen at the Council's Offices, or at the Architect's Offices, 37a Bartholomew Street, Newbury. Tenders by Dec. 5.

Caithness. — Laying of approximately 850 yards of 6in. and 9in. diameter stoneware sewers, 460 yards of 3in. and 6in. diameter spun iron water mains and the construction of two septic tanks in the parish of Thurso, for C.C. Documents from the office of the engineers, Binnie, Deacon and Gourley, Artillery House, Artillery Row, London, S.W.1, or John L. Russell, county clerk, County Offices, Wick, by Nov. 25. Deposit £5. Tenders by Dec. 16.

***Camberwell.**—Surface water sewer, Sydenham Hill, for B.C. Tenders by Dec. 6.

***Chorley, Lancs.**—Anderton and Heath Charnock and Clancutt Lane, Coppull sewerage schemes for R.D.C. Deposit £5 5s. each contract. Tenders by Nov. 29.

Devizes, Wilts.—Drainage and other ancillary works to provide modern conveniences at 26 Council houses at Urchfont, Stanton St. Bernard and Etchilhampton for R.D.C. Documents from the Engineer and Surveyor, Browfort, Devizes. Deposit £1 1s. Tenders by Dec. 2.

***Dorking, Surrey.**—Cleaning Mill Pond, for U.D.C. Tenders by Dec. 19.

***Dunmow, Essex.**—Great Easton and Duton Hill sewerage extensions, contract 15A for R.D.C. Deposit £10 10s. Tenders by Dec. 19.

***East Kesteven, Lincs.**—Extensions to Anwick sewage disposal works (contract 1), for R.D.C. Deposit £3 3s. Tenders by Dec. 14.

***Hatfield, Herts.**—Construction of Welham Green relief sewer, for R.D.C. Deposit £2 2s. Tenders by Nov. 30.

Lancashire.—Construction and completion of roadworks in Highfield Avenue, Farington, in the rural district of Preston for C.C. Plans, etc., on view at 9 Fishergate Hill, Preston. Documents from County Surveyor and Bridgemaster, P.O. Box 9, Preston. Deposit £2. Tenders by Nov. 25.

Manchester. — Draining approximately 4 acres land and for the laying of water supply to fields (approx. 450 yards) at Langho Colony, near Blackburn, for City Council. Particulars from the farm bailiff at the Colony.

***Mansfield, Notts.**—Supply of steel reinforcing bars for stage I reconstruction of sewage disposal works for B.C. Tenders by Dec. 5.

***Mossley, Lancs.** — Construction of storm overflow, etc., at sewage disposal works contract 2, for B.C. Deposit £2 2s. Tenders by Dec. 9.

Risca, Mon.—Construction of approximately 1,000yd. of 48in. diameter reinforced concrete surface water sewer, 850yd. of 15in. concrete foul sewer, and the tubing of a canal to provide two crossing places, together with ancillary works for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Risca. Deposit £3 3s. Tenders by Nov. 29.

***Truro, Corn.** — Construction of Portloe sewerage scheme for R.D.C. Deposit £3 3s. Tenders by Dec. 21.

Tuam, Galway, Eire.—Supply of fourteen sets of lifting gear for timber sluice gates at Corrib/Clare drainage works, Tuam, for the Office of Public Works. Documents from the Secretary, Office of Public Works, 51 St. Stephen's Green, Dublin. Tenders by Nov. 29.

***Wantage, Berks.**—Chaddleworth sewerage scheme for R.D.C. Deposit £3 3s. Tenders by Dec. 17.

Wing, Bucks. — Following for R.D.C.: Ledburn (parish of Mentmore, Bucks)—laying 637yd. of 6in. diameter stoneware sewers, construction of pumping station and small sewage treatment works; Cublington (Bucks)—laying 450yd. of 6in. diameter stoneware sewers and enlargement of existing small sewage treatment works. Documents from the Surveyor, Brooklands, Linslade, Leighton Buzzard. Deposit £2 2s. Tenders by Dec. 19.

York. — Supply and erection of two 1,867 g.p.m. centrifugal pumps and electrical gear for the recirculation pumphouse at the Naburn Sewage Purification Works (stage II extension) for City Council. Documents from Chas. J. Minter, city engineer, surveyor and planning officer, 7 St. Leonard's Place, York. Tenders by Dec. 5.

STREET LIGHTING

Braintree and Bocking, Essex.—Following for U.D.C.: (1) Taking delivery and erection of 112 group "B" prestressed concrete columns; (2) supply, erection and wiring up of 115 45/60-watt sodium enclosed lanterns; (3) the laying of cable ducts across carriageways; (4) the dismantling of the existing lighting installation; (5) incidental works. Documents from the Engineer and Surveyor, Town Hall, Braintree. Deposit £2 2s. Tenders by Dec. 2.

***Colwyn Bay, Denbighs.** — Street lighting conversion scheme (contracts 1—7), for B.C. Tenders by Dec. 3.

Dunblane, Perth.—Supply and erection of seven concrete lighting columns, lanterns,

all auxiliary equipment, and the removal and re-erection of six existing lighting columns on trunk road A.9 for B.C. Documents from the Burgh Surveyor, Burgh Chambers, Dunblane. Tenders by Jan. 10.

***Evesham.**—Supply and installation of sodium street lighting on A.435 and A.44, for B.C. Deposit £2 2s. Tenders by Dec. 7.

Hampstead.—Group "A" street lighting improvement scheme, 1960-61, which comprises relighting to group "A" standard approximately 5¼ miles of classified roads in the borough for B.C. Two tenders are required, as set out below, and these may be considered separately, or together, for the complete work: (1) Supply of street lighting lanterns and ancillary equipment for colour-corrected mercury lighting; (2) supply and erection of group "A" specified tubular steel columns and installations of the above equipment, together with the removal of existing group "B" columns and lanterns. Documents from the Borough Engineer and Surveyor, Town Hall, Haverstock Hill, N.W.3. Deposit £2 2s. Tenders by Nov. 30.

Lanarkshire.—Following for trunk road lighting, Dewshill A.8, for C.C.: 1—8 280-watt sodium discharge lanterns, suitable for housing a single 280-watt sodium discharge lamp, or alternatively two conventional type 140-watt sodium discharge lamps. 2—16 totally enclosed leak transformers. 3—16 totally enclosed capacitors. 4—8 steel street lighting columns complete with a 9ft. outreach bracket arm. The whole assembly to give a mounting height of 35ft. The columns should be suitable for underground distribution. Tenders will be considered for the whole or any portion of the works. Documents from the Deputy County Lighting Engineer, Beckford Street, Hamilton. Tenders by Nov. 28.

Stockport, Ches.—Supply of 850 class "B" concrete lighting columns for B.C. Documents from Borough Surveyor, Town Hall. Tenders by Nov. 28.

Surrey.—Provision and erection on Kingston By-pass at Claygate Lane of 12 140-watt sodium lighting units (group "A") on six concrete columns for C.C. Documents from the County Engineer, County Hall, Kingston-upon-Thames. Tenders by Nov. 20.

Wembley, Middx.—Conversion of main road lighting (stage III) for B.C., comprising the provision and erection of 324 sodium and fluorescent class A units and removal of existing columns. Documents from the Borough Engineer and Surveyor, Town Hall, Wembley. Tenders by Nov. 25.

Ystradgynlais, Brecons.—Supply only of 178 sodium lanterns and accessories. Specification from the Surveyor, Council Offices, Ystradgynlais. Tenders by Nov. 24.

INTERNATIONAL CONTRACT

Sudan.—Supply of 20 off low-loading cotton trailers for the Sudan Gezira Board. The trailers to be so designed to take a maximum loading of four tons, equally distributed (22 sacks of cotton, 350lb. each approximately). Apply to the Representative of the Sudan Gezira Board, Castle Chambers, Castle Street, Liverpool, 2, for specifications and conditions as soon as possible. Tenders (in Barakat, Sudan) by noon, Dec. 20.

AWARDS

BUILDING AND DECORATING

(See also Housing Schemes)

Acton, Middx.—Erection of a new engineering block at Brunel College of Technology, Woodlands Avenue, for C.C.—Prestige and Co., Ltd., 149 Grosvenor Road, London, S.W.1 (recommended). Plans by Whitfield Lewis, county architect. H. Trinick and Partners, quantity surveyors, 11 Old Queen Street, London, S.W.1.

Barnard Castle, Dur.—Alterations at Cambridge House for C.C.—T. H. Hoggett and Son, 4 King Street, Barnard Castle, £2,032 (recommended).

Barnsley, Yorks.—Supply and erection of prefabricated building for communal facilities on the Yews Farm estate for B.C.—Spooners (Hull), Ltd., Glebe Road, Stoneferry, Hull, £5,845; construction of foundations — Direct Labour, £1,955 (recommended, subject to Ministry approval).

Bishop Auckland, Dur.—Erection of a hostel for C.C.—A. Lax and Sons, Steels House Yard, West Road, Crook, £52,185 (recommended).

Blackburn, Lancs.—Extensions to Blackamoor Open-Air School for B.C.—Henry Ibbotson and Son, Ltd., 34 Mincing Lane, Blackburn (recommended).

Blackpool, Lancs.—Alterations to existing factory premises at Chiswick Grove, Marton, to form office building for Empire Pools, Ltd. Joseph W. Anderson, architect, Burnley Chambers, 35 Clifton Street, Blackpool—R. Fielding and Son (Builders), Ltd., Stanhope Road, Blackpool, £52,164.

Bolton, Lancs.—Improvements to sanitary and washing facilities at Haulgh County Primary School and Ridgway's Endowed C.E. School for B.C.—Rimmer, Kitchen, Bolton, Ltd., rear 93 Manchester Road, Bolton (recommended). Estimated cost £669 and £2,761, respectively.

Bristol.—Improvements to 2 Richmond Terrace, Avonmouth, and 5 Clifton Wood Crescent, for City Council—Direct Labour (recommended), estimated cost £946 and £1,099, respectively.

Bristol.—Construction of a five-storey car park incorporating a parade of shops and a ballroom at Fairfax Street for Shop Construction and Parcar, Ltd. Kenneth Wakeford, Jerram and Harris, architects, 3 Upper Berkeley Place—Unit Construction Co., Ltd., 34 St. James's Street, London, S.W.1. Estimated cost £500,000. Work about to commence.

Bury St. Edmunds, Suffolk.—Modernisation of nine houses in Priors Road, Springfield Avenue, Grove Park and Vinery Road for B.C.—Thompson Bros. (Bury St. Edmunds), Ltd., Market Thoroughfare, Bury St. Edmunds, £2,900.

Carlisle, Cumb.—Restoration of control tower at Crosby Aerodrome for City Council—Direct Labour (recommended). Estimated cost £3,000.

Cardiff.—Following for City Council: (a) Provision of cycle sheds and playing fields store at Howardian High School for Boys. (b) canoe store and workshop at Glantaf County Secondary School, and (c) alterations to kitchen/dining room at Green Hill Open-air School—Davies and Davies, 206 Penarth Road, Cardiff, (a) £2,356, (b) £1,002 and (c) £1,582; provision of temporary accommodation and toilet facilities at Penybryn County Primary School—Swatridge and Son (Cardiff), Ltd., 599 Newport Road, Rumney, Cardiff, £6,895; erection of Penyrheol County Primary Junior and Infants' School—Frank Batty and Smith, Ltd., 64 System Road, Cardiff, £140,217 (recommended).

Colchester, Essex.—Construction of an indoor swimming pool at Shrub End Playing Field for B.C.—Reema Construction Co., Ltd., Salisbury, Wilts. Estimated cost £117,000.

Derby.—Extensions to casualty department at Derbyshire Royal Infirmary for Sheffield Regional Hospital Board—W. Ford and Sons (Contractors), Ltd., Summer Hill, Becket Well Lane, Derby, £4,700 (recommended).

Dewsbury, Yorks.—Supply and erection of a new greenhouse at Crow Nest Park for B.C.—R. Halliday and Co., Ltd., Market Place, Middleton, Manchester, £939; builder's work, including installation of heating system—F. Hart, 16 Jessamine Street, Ravensthorpe, Mirfield, £981 (recommended, subject to Ministry approval).

Doncaster, Yorks.—Provision of lift and first floor connecting corridor at Western Hospital for Sheffield Regional Hospital Board—Quibell and Son, Ltd., 354 Beverley Road, Hull, £13,725 (recommended).

Doncaster, Yorks.—Erection of public conveniences at the junction of Broomhouse Lane and Edlington Lane, Edlington (contract 352) for R.D.C. J. A. Williams, surveyor—L. Rayner, 25 Cemetery Road, Doncaster, £2,067.

Dudley, Worcs.—Construction of new lavatories at St. John's School for B.C.—Preece and Billingham, Ltd., Ross, Rowley Regis, £3,442.

Ealing, Middx.—Provision of serveries at Stanhope Schools for B.C.—Ferris Bros., Ltd., 104 Churchfield Road, London, W.3, £4,350 (recommended, in lieu of previous tender).

Eccles, Lancs.—Supply and erection of an office building in Irwell Place for B.C.—Vic Hallam, Ltd., Langley Mill, Nottingham, £5,133 (recommended).

Edmonton, Middx.—Roof tiling and tile hanging for West Street redevelopment for B.C.—H. I. Wedge and Sons, 99 High Road, London, N.15, £2,072 (recommended).

Enfield, Middx.—Following for B.C.: Erection of branch library and rates office at Ponders End—Townsend and Collins, Ltd., 129 Goat Lane, Enfield, £17,534 (recommended); Fredk. Smith and Co. (Builders), Ltd., £18,558; Charles Cook and Partners, Ltd., £18,062; Field and Davis, Ltd., £17,595.

Extension to Civil Defence centre at Bury Farm—S. and G. Peachy and Sons, Ltd., £3,960 (recommended); H. Almond and Co., £5,420; Morris and Son (Builders), Ltd., £5,063; T. C. Firmin and Sons, Ltd., £5,660.

Repair works to the dust pit chamber—Topping and Leggat, 13 Old Park Road, Palmers Green, London, N.13, £2,288 (recommended).

Framwellgate Moor, Dur.—Erection of workshops and stores at Fire Brigade Headquarters for C.C.—Bell and Ridley, Ltd., 79 North Road, Dur., £17,566 (recommended).

Friern Barnet, Middx.—Erection of eight and 25 lock-up garages at Whetstone Close and Colney Hatch Lane for U.D.C.—Bell and Webster, Essex Road, Hoddesdon, Herts., £4,245. Commencing Jan. 1, 1961.

Great Yarmouth, Norfolk.—Following for B.C.: Improvements to Wood Farm and Greenacre Cottages—A. Cadmore, Ltd., Albert Gate Road, Great Yarmouth, £1,884; shelving and fittings for new central library—H. A. Holmes and Sons, Ltd., South Ice House Hill, Gorleston, Great Yarmouth, £6,684; alterations to the rear wall of the Transport Depot and erection of an oil storage building—R. G. Carter, Ltd., Drayton, Norwich, £1,829 (recommended).

Harrogate, Yorks.—Following for B.C.: Supply and erection of new canopies in Parliament Street—British Patent Glazing Co., Ltd., 120 Moorgate, London, E.C.2, £2,294.

Extension of Health Department garage at Claro Road: concrete and bricklayers' work—G. A. Scaife, 21 Chatsworth Road, Harrogate, £1,556; supply and erection of steelwork and roofing—Teesdale and Metcalfe, Ltd., 26 North Street, Wetherby, £1,394; sliding and folding doors—Knowles Woodworking, Ltd., Eastwood Trading estate, Rotherham, £862 (recommended).

Hastings, Sussex.—Third and final stage of the Wishing Tree Nursery for B.C.: Provision of one propagating house—Cambridge Glasshouse Co., Ltd., Barton Road, Comberton, Cambridge, £883; installation of automatic watering, ventilation, etc.—South Eastern Electricity Board, £732; necessary footings, brickwork, paths and general site preparation, etc.—Direct Labour, £2,499 (recommended).

Horsforth, Yorks.—Alterations and additions to the present Council offices for U.D.C. J. Marsden, engineer and surveyor—T. Throup and Sons, Ltd., Horsforth, £5,898 (recommended). Work commencing in the near future.

Ickenham, Middx.—Erection of the Douay Martyrs R.C. Secondary School for the Trustees of the Arch Diocese of Westminster—W. S. Try, Ltd., High Street, Cowley, Middx., £165,368. David Stokes and Partners, architects, 5 Cochrane Street, London, N.W.8, and Davis, Belfield and Everest, quantity surveyors, 9 Ashley Place, London, S.W.1.

Kensington.—Erection of exhibition hall, administration block, cinema and art gallery, at the Commonwealth Institute for Ministry of Education—John Laing and Son, Ltd., London, N.W.7.

Kingston-upon-Thames, Surrey.—Construction of pavilions at following for B.C.: Norbiton Sports Ground—Webb Bros., 6 Studland Road, Kingston-upon-Thames, £15,063; Latchmere Recreation Ground—A. H. Anderson, Ltd., 66 Victoria Street, London, S.W.1, £4,979 (recommended).

Leamington Spa, War.—Construction of prefabricated garages and site works at Buckley Road for B.C.—W. Prefabricated Concrete Buildings, Ltd., £2,476, and Roadrive, Ltd., Leamington Spa, £972, respectively (recommended).

Leeds.—Erection of the East Leeds Hostel for Women for City Council—Samuel Flockton, Ltd., Stoney Rock Lane, Leeds, 9 (recommended, subject to Ministry approval).

Piling ground beams and ground slabs for shopping centre at Lincoln Green—West's Piling and Construction Co., Ltd., Columbia House, Aldwych, London, W.C.2, £18,138 (recommended).

Leicester.—Recreation room in Mansion House, Stretton Hall, Oadby, for Sheffield Regional Hospital Board—Wm. Moss and Sons, Ltd., Queens Road, Loughborough, £6,020 (recommended).

Llanidloes, Monts.—Erection of a community centre on a site adjoining Mount Street and New Street for B.C. H. Carr, architect—D. T. Jones and Co., Powells Lane, Welshpool, £23,323 (accepted); Gee, Walker and Slater, Ltd., £26,715; E. I. Higley, £24,591; Ernest Deacon, Ltd., £27,686; Evans and Owen, Ltd., £23,414. Work to commence Dec.

Leyton, Essex.—Twenty garages at Argyle Road, King's Road and Ashville Road for B.C.—Concrete Utilities, Ltd., Great Amwell, Ware, Herts., £1,568 (recommended).

London.—Foundation works for new offices at Coleman Street, London, E.C.2, for Swiss Bank Corporation. David du R. Aberdeen and Partners, architects, 19 Southampton Place, London, W.C.1—Holloway Bros. (London), Ltd., 157 Millbank, London, S.W.1. Estimated cost £100,000. Work commenced.

Luton, Beds.—Following for B.C.: Repairs to building No. 24 and hangar No. 9 at Airport—Industrial Building and Maintenance, Ltd., Reading, £8,739 each; supply and erection of steelwork for new hangar at Airport—Boulton and Paul, Ltd., Norwich, £81,994 (recommended).

Plumbing and carpentry works in 70 B.I.S.F. houses in Ashcroft, Hartsfield, Yeovil and Williton Roads—A. G. Peck (Contractors), Ltd., 5-7 Wenlock Street, Luton (recommended, extension of contract).

Maidstone, Kent.—Construction with granite blocks of the retaining wall at Lockmeadow for B.C.—Bensted (Contractors), Ltd., Coombe, Maidstone, £2,921 (recommended).

Manchester. — Erection of new offices at Greenheys for the Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield and Birmingham—Bernard Sunley and Sons, Ltd., £250,000; heating and ventilating—R. W. Steele and Partners, 128 Finchley Road, London, N.W.3; Playne and Lacey, architects, 19 Queen Anne's Gate, Westminster, London, S.W.1; Hamilton H. Turner and Son, quantity surveyors, 19 Queen Anne's Gate, Westminster, London, S.W.1; and Ove Arup and Partners, 13 Fitzroy Street, London, W.1, are the structural engineers. Work to commence in the New Year.

Merthyr Tydfil, Glam.—Erection of extension at Hollies Clinic for B.C.—Heaton Lee, Ltd., 110 High Street, Dowlais, Merthyr Tydfil, £2,200.

Newcastle upon Tyne. — Erection of fire station house and A.F.S. garage at Swalwell for C.C.—Alex. Watson (Builders), Ltd., The Knowles, Front Street, Whickham, £43,479 (recommended).

Newcastle upon Tyne. — Alterations to wards at Walkergate Hospital for Newcastle Regional Hospital Board—McGarrick Construction Co., Chester-le-Street, £6,634.

Norwich. — Erection of 64 garages at six housing estates for City Council—Lansdale and Falconbridge, Ruskin House, Woodlands Road, New Costessey, £10,724 (recommended, subject to Ministry approval).

Oxford. — Following for City Council: Construction of public conveniences at Cripley Road—S. C. H. Smith and Son, South Avenue, Abingdon, Berks., £2,768; improvements to the Ormerod School—A. J. Sadler and Co., Ltd., Vicarage Farm Cottage, Chesterton, Bicester, £2,042; extension to Cotuit House—Knowles and Son (Oxford), Ltd., 27 Rectory Road, Oxford, £50,118; provision and erection of a Dutch barn with concrete extension at Blackbird Leys estate—Crendon Concrete Co., Ltd., Thame Road, Long Crendon, Aylesbury, Bucks., £2,845 (recommended).

Pembrokeshire. — Erection of a new infants' school at Golden Lane, Pembroke, for Co. E.C. Lt.-Col. Walter Barrett, county architect—George Argent and Co., Ltd., South Road, Pembroke, £31,845 (accepted); Hadsphaltic Construction Co., £32,223; Gee, Walker and Slater, Ltd., £34,565; Huzzy, Egan and Pickmere, Ltd., £35,388. Work about to commence.

Peterlee, Dur.—Erection of Dene House Modern School for C.C. G. W. Gelson, county architect—Gordon Durham and Co., Moor Lane, East Boldon, £145,992 (in lieu of previous tender).

Plymouth. — Following for City Council: Adaptations and extensions at Crownhill Secondary School—A. N. Coles (Contractors), Ltd., Sutton Road, Plymouth, £16,880: nine garages on land at east side of St. Peter's Church hall—Direct Labour, £1,949 (rcommended).

Portsmouth. — Following for City Council: Phase 4 of the extensions to the Portsmouth Training College, comprising erection of two three-storey female study/bedroom blocks, one 13-storey male study/bedroom block, dining room and kitchen block, gymnasia, domestic staff block, tutors' flats, caretaker's house and site works at Furze Lane—R. Corben and Son, Maidstone, £270,000 (recommended); John Hunt, Ltd., £283,028; Jno. Croad, Ltd., £287,532; Tersons, Ltd., £289,845; F. J. Privett, Ltd., £292,118; H. Jones and Son (Portsmouth), Ltd., £294,323; H. E. Collins, Ltd., £295,900; Faulkners Public Works Co., Ltd., £296,475; Holliday and Greenwood, Ltd., £297,505.

Remodelling of two domestic science rooms at Milton Modern School for Girls—Direct Labour, £1,903 (recommended); R. W. Bailey, Ltd., £2,069; Payne Bros. (Portsmouth), Ltd., £2,420; H. Jones and Son (Portsmouth), Ltd., £2,691; Samuel Salter (Portsmouth), Ltd., £2,898.

Remodelling of domestic science room at Southsea Modern School for Girls—Direct Labour, £1,726 (recommended); R. W. Bailey, Ltd., £1,873; H. Jones and Son (Portsmouth), Ltd., £2,005; Samuel Salter (Portsmouth), Ltd., £2,259; Payne Bros. (Portsmouth), Ltd., £2,399.

Alterations and improvements to 28 Lyndhurst Road—T. Coleborn and Son, 10 Newcastle Street, Fratton, Portsmouth, £696 (recommended); L. V. Evans, £712; Bicknells (Southsea), Ltd., £735; H. Jones and Son (Portsmouth), Ltd., £812; T. Stride and Son, £813; Barnes and Elliott,, Ltd., £872; Enfin, Ltd., £935; R. W. Bailey, Ltd., £1,091.

Alterations and improvements to 42 Padington Road—T. Coleborn and Son, £725 (recommended); L. V. Evans, £743; Bicknells (Southsea), Ltd., £778; T. Stride and Son, £792; Henry Jones (Portsmouth), Ltd., £889; Barnes and Elliott, Ltd., £913; Enfin, Ltd., £972; R. W. Bailey, Ltd., £996.

Alterations and improvements to 28 Newcomen Road—Thomas Stride and Son, 202 Fratton Road, Portsmouth, £550 (recommended); T. Coleborn and Son, £559; Bicknells (Southsea), Ltd., £616; L. V. Evans, £626; R. W. Bailey, Ltd., £636; H. Jones and Son (Portsmouth), Ltd., £659; Enfin, Ltd., £688; Barnes and Elliott, Ltd., £702.

Alterations and improvements to 30 Newcomen Road—T. Coleborn and Son, £507 (recommended); T. Stride and Son, £519; Bicknells (Southsea), Ltd., £575; L. V. Evans, £590; R. W. Bailey, Ltd., £604; H. Jones and Son (Portsmouth), Ltd., £638; Enfin, Ltd., £669; Barnes and Elliott, Ltd., £691.

Alterations and improvments to 39 Dumbarton Road — Thomas Stride and Son, £732 (recommended); Ralph W. Bailey, Ltd., £834; Henry Jones and Son (Portsmouth), Ltd., £852; Bicknells (Southsea), Ltd., £854; L. V. Evans, £861; Enfin, Ltd., £883; Barnes and Elliott, Ltd., £899.

Alterations and improvements to 52 Bedhampton Road — L. V. Evans, 126 Albert Road, Southsea, Portsmouth, £1,093 (recommended); Thomas Stride and Son, £1,127; Ralph W. Bailey, Ltd., £1,167; Henry Jones and Son (Portsmouth), Ltd., £1,192; Enfin, Ltd., £1,257; Barnes and Elliott, Ltd., £1,386.

Provision of a Hartley plant house for Leigh Park—V. and N. Hartley, Ltd., Wellington Mills, Greenfield, Oldham, £929 (recommended).

Prudhoe, Northumb.—Further stage of development at Prudhoe and Monkton Hospital for Newcastle Regional Hospital Board. Construction of villa for spastics, villa for epileptics, and extensions to nurses' home. Plans by P. H. Knighton, chief architect to the Board — John Twiname, Ltd., Cockermouth, Cumb., £142,979.

Construction of school, four children's villas for psychotics, two houses and external work — S. W. Milburn and Partners, architects, 9 Esplanade, Sunderland—John Jackson and Sons, Corporation Street, Newcastle upon Tyne, £283,288; mechanical engineering work for both schemes—Rowells (1924), Ltd., Byron Street, Newcastle, £50,000; electrical work for both schemes — James Scott and Co., Argyle Street, Newcastle upon Tyne, £20,000.

St. Helens, Lancs.—Erection of phase I of factory at Mellings Mill, Eccleston Street, for John Thornton and Co., Ltd.—Thomas Winstanley and Son, Ltd., Mill Lane, Rainford, Lancs., estimated cost £60,000. Work commenced.

Scunthorpe, Lincs.—Roof tiling for building scheme 87 for B.C.—T. Oglesby, 44 Ashby Road, Scunthorpe, £1,904 (recommended).

Sleaford, Lincs.—Builder's work for conversion of boiler plant to oil firing at Rauceby Hospital for Sheffield Regional Hospital Board—Truman and Crosby, Ltd., Signal Road, Grantham, £930 (recommended).

Smethwick, Staffs. — Following for B.C.: Erection of 14 garages at Mill Gardens—Ernest Batley, Ltd., College Road, Holbrooks, Coventry, £2,054; alteration and renovation of the cemetery lodge — A. E. Robertson and Co., Birmingham, £1,432; construction of a stadium (including changing accommodation and a covered stand), a gymnasium black and a groundsman's house at Hadley Playing Fields—Francis N. Adams, Ltd., 54 Stratford Road, Birmingham, 11, £54,741; repairing and treating roof areas at Abbey Infants' School—Ruberoid Co., Ltd., 75 New Street, Birmingham, 2, £617; dilapidation repairs at Bearwood Road Junior School—Francis N. Adams, Ltd., £5,529 (recommended).

Stockport, Ches. — Following for B.C.: Repairs to roofs at Sherborne Road estate—William Royle and Co., Ltd., 357 Oxford Road, Manchester, 13, £1,185; reinforced concrete work at Brinnington Secondary School, phase II—Fram Reinforced Concrete Co., Ltd., 165 Plymouth Grove, Manchester, 13, £9,888.

Provision of kitchens at Brinsdale and Maycroft Primary Schools — Moston Brick and Building Co., Ltd., Kenyon Lane, Manchester, 10, £9,000 (subject to Ministry approval).

Stockton-on-Tees, Dur.—Erection of following for B.C. T. C. Hartley, borough architect: Hardwick Infant School—Chas. Tennet, Ltd., Church Road, Stockton, £41,694; curtain walling for the Hardwick Secondary Modern School — Hills (West Bromwich), Ltd., £14,000.

Stoke-on-Trent, Staffs.—Erection of following for City Council: Public conveniences in Stone Road, Trent Vale—B. Scott, 161 Fletcher Road, Stoke-on-Trent, £4,448; health centre at Ubberley/Bentilee—Joseph Kelly (Stoke-on-Trent), Ltd., Corporation Street, Stoke-on-Trent, £55,774; shops and offices (incorporating ladies' conveniences) at Stafford Street-Tontine Street, Hanley—Direct Labour, £76,767 (recommended, subject to Ministry approval).

Repairs to the roof of the waste eliminator plant—Direct Labour (recommended). Estimated cost £1,250.

Suffolk.—Extension to engineers' workshops at West Suffolk General Hospital for East Anglian Regional Hospital Board—R. Hogg and Son, Coney Weston, Bury St. Edmunds, £1,223 (recommended).

Sunderland, Dur. — Rebuilding Queens Cafe, Dykeland Road, for A. H. Suddick—Sloan and Earnshaw, 60 Dundas Street, Sunderland.

Swansea.—Following for B.C.: Erection of a sports pavilion and tea room at Bonymaen playing fields — Murphy and Jones, 64a Bryn Street, Brynhyfryd, Swansea, £10,324. Work commencing January.

Sports pavilion at King George V Playing Fields—Rees and Kirby, Ltd., Foundry Street, Morriston, Swansea, £30,680. Work commencing December.

Tunbridge Wells, Kent.—Erection of a factory at Longfield Road, North Farm Industrial Estate, for J. Rawson and Sons, Ltd., Mount Pleasant—Perryman (Building Contractors), Ltd., 7 Castle Street, Tonbridge, estimated cost £31,000; Alun Jones and Allerton, architects, 39 High Street, Bromley; M. K. Boyden, quantity surveyor, 4 Duke's Mews, London, W.1. Work has commenced.

Tynemouth, Northumb.—Alterations and additions at Victoria Jubilee Infirmary for Newcastle Regional Hospital Board. Gray and Partners, architects, 52 Camden Street, North Shields—R. Jordan, Ltd., Back Queen Alexandra Road, Tynemouth, £18,720; electrical work — Veale Nixon, Ltd., Newcastle, £1,862.

Wallasey, Ches. — Extensions at Moreton Secondary Modern School for B.C.—Wm. Moss and Sons, Ltd., Yardly Road, Kirkby Industrial Trading Estate, Liverpool.

Walthamstow, Essex.—Following for B.C.: (a) Structural floors, etc., and (b) staircases and balcony balustrades at Avon Road and Fyfield Road—(a) Flooring Contracts (London), Ltd., 11 Lower Grosvenor Place, London, S.W.1, £4,240 and (b) H. Teale and Sons, Ltd., Garth Iron Works, Garth Road, Lower Morden, Surrey, £1,383; repair and conversion of 197 Markhouse Road — Direct Labour, £3,343 (recommended).

Watford, Herts.—Erection of shops and offices for City House Properties—Gilbert-Ash, Ltd., 2 Stanhope Gardens, London, W.1, £150,000.

West Hartlepool, Dur. — Alterations and additions to Inland Revenue Offices for the Ministry of Works—D. and J. Ranken, Ltd., Stockton Road, Sunderland.

Widnes, Lancs. — Work of strengthening the existing timber floors at Warrington Road and Simms Cross County Primary Schools by the insertion of steel channels alongside the existing beams for B.C.—D. Lesley (Contractors), Ltd., 20 Tithebarn Street, Liverpool.

Willesden, Middx. — Following for B.C.: Repairs to Kilburn Grammar School—E. and M. Builders, 2 Plympton Road, London, N.W.6, £1,064; internal washdown and external painting at Lower Place School—Buckingham and Sons, Ltd., 45 Vivian Avenue, London, N.W.4, £1,175; external painting of Mora School and Gladstone

Social Centre—Dennis Price, Ltd., 6 Lechmere Road, London, N.W.2, £1,026 (recommended).

Willesden, Middx. — Provision of additional accommodation and garages at Maria Grey College for Co. E.C.—Bristow and Darlington, Ltd., 30 Tavistock Avenue, Perivale, Greenford, £3,181 (recommended).

Woodbridge, Suffolk.—Conversion of remaining farm buildings to central engineering stores at St. Audry's Hospital, Melton, for East Anglian Regional Hospital Board—Direct Labour. Estimated cost £2,910 (recommended).

CLOTHING AND TEXTILES

Dewsbury, Yorks. — Supply of 50 donkey jackets for B.C.—A. Miller, Ltd., 175 Bermondsey Street, London, S.E.1, £2 7s. 11d. each (recommended).

Rochdale, Lancs.—Supply of overalls for B.C. —J. W. Sturrock and Co., Ltd., 26s. 7½d. each (recommended).

DEMOLITION

Barnsley, Yorks.—Demolition of seven emergency static water tanks for B.C.—A. Dickinson, £525 (recommended).

Beverley, Yorks. — Demolition of 28 and 30 Hengate and 2 Walkergate for B.C.—Messrs. Walkers, Preston, £65 (recommended).

Dewsbury, Yorks.—Demolition of premises at Battye Street and clearing site of property at Old Bank Road for B.C.—B. Gill, Bradford, £50, and Ibbitson Bros., Batley, £55, respectively (recommended).

Dudley, Worcs. — Demolition of 50 King Street for B.C.—Demolition and Construction Co., Ltd., £93 (recommended).

Ealing, Middx. — Demolition of 252 Ruislip Road, Greenford, for B.C.—G. Godleman, Ltd., London, W.5, £38 (recommended).

Folkestone, Kent. — Demolition of Capel Battery and Radar sites for B.C.—Dover Demolition and Erection Co., Ltd., 30 Castle Street, Dover, £2,771 (recommended, subject to Ministry approval).

Grantham, Lincs.—Demolition of vacant properties, clearance area 39, for B.C.—R. J. Bavister and Son, £20 5s. per house (recommended).

Leamington Spa, War. — Demolition of 1-20 Portland Row and Aylesford Well for B.C. —D. Lynch, 362 Stoney Stanton Road, Coventry, £270 and £95, respectively (recommended).

Maidstone, Kent.—Demolition of three air raid shelters and warden's post at Penenden Heath, for B.C.—R. Daynes, £196 (recommended).

Smethwick, Staffs.—Demolition of buildings on the Windmill Brewery site and 57 Mornington Road for B.C. — William Hallam and Co., Manchester, £2,350 and £95, respectively (recommended).

Stockport, Ches. — Demolition of 10 to 18 Small Street and 17 Vale Street for B.C.—J. Stevens, £138.

Sunbury-on-Thames, Middx. — Demolition of all the buildings, the breaking up of the concrete oversite and fencing works at Rossall House and 11 Thames Street for C.C. —C. T. Worley, £5000 (recommended).

Sunderland, Dur.—Demolition and clearance of site of the Gaiety Cinema, High Street East for B.C.—Richmond Construction, Ltd., West Hartlepool, £210 (recommended).

Swindon, Wilts.—Demolition of properties in Merton Street, Wellington Street and College Street for B.C.—R. J. Morrison, Cheltenham, £200 (recommended).

Willesden, Middx.—Demolition of laundry, on site of block U, South Kilburn Redevelopment area, for B.C.—Haslam and Whymark, Yard, Roundwood Road, London, N.W.10, £245 (recommended).

ELECTRICAL

Barnsley, Yorks.—Electrical installation at St. Helens Secondary Modern School for B.C.—N. G. Bailey and Co., Ltd., Weaver Street, Leeds, 4, £10,164 (recommended).

Billingham, Dur.—Electrical work at Campus School for Co. E.C.—C. Horne and Co., Ltd., Newelvet, Durham, £34,585.

Birtley, Dur.—Electrical work at Ravensworth Terrace County School for Co. E.C.—T. Mitchelson (Electrical), Ltd., 22 West Street, Gateshead, 8, £1,104.

Brandon, Dur. — Electrical installation at residential nursery for C.C.—T. Mitchelson (Electrical), Ltd., 22 West Street, Gateshead, 8, £851.

Cardiff.—Replacement of existing traffic signals at North Road/Western Avenue junction for City Council — S.G.E. Signals Co., Ltd., £1,578 (recommended).

Carlisle, Cumb.—Provision of traffic lights at the junction of Scotland Road and Etterby Street for City Council — Automatic Telephone and Electric Co., Strowger House, 8 Arundel Street, London, W.C.2, £3,559 (recommended, subject to Ministry approval).

Derby. — Electrical services for additional boiler at City Hospital for Sheffield Regional Hospital Board—Francis W. Harris and Co., Ltd., High Street, Leek, Staffs., £773 (recommended).

Durham. — Electrical work at Durham Technical College for Co. E.C.—North of England Engineering and Electrical Co., Ltd., Ferryhill, £2,083.

Harrogate, Yorks.—Installation of vehicle-actuated signals in place of existing ones at junction of Ripon Road with Skipton Road for B.C.—Siemens and General Electric Railway Signals Co., Ltd., East Lane, Wembley, Middx., £1,290 (recommended).

Hull.—Electrical installation to 157 dwellings, Boothferry estate, for City Council—Reliance Electrical Co., 500 Inglemire Lane, Kingston upon Hull.

Leeds.—Following for City Council: Electrical installations for shopping centre at Lincoln Green and for the erection of four 10-storey blocks of flats on the Moor Grange and Swarcliffe estates—B.C.S. Electrics, Ltd., 10 Mill Hill, Leeds, 1; electrical work for 24 dwellings at Sissons Green and Cardinal Gardens — Vallance Electrical Engineers, Ltd., Gathorne House, Roundhay Road, Leeds, 8.

Manchester. — Electrical installation at St. Joseph's Buildings for City Council—Yewson Electrical Contracting, Middleton, and E. M. Evans and Sons, Ltd., Cornell Street, Manchester, 4, respectively.

Middlesbrough, Yorks.—Supply and installation of traffic signals at Albert Road/Corporation Road junction, Albert Road/Grange Road junction and Linthorpe Road/Grange Road junction for B.C.—Siemens and General Electric Railway Co., Ltd., East Lane, Wembley, Middx., £4,279 (recommended).

Newmarket Suffolk. — Electrical engineering services for new boiler house and plant at Newmarket General Hospital for East Anglian Regional Hospital Board—Wilson Heating and Electrical Co., Ltd., Harston, Cambs., £2,178 (recommended).

Norwich.—Renewal of the electric lighting and provision of four power points in 28 dwellings at Angel Road housing estate, group C, for City Council—K. Clarke, 15 Chalk Hill Road, Norwich, £1,324 (recommended, in lieu of previous tender).

Rugby, War. — Supply and installation of vehicle-actuated automatic traffic signals at junction of Warwick Street and Dunchurch Road, and automatic traffic signals at junction of Market Place and Chapel Street for B.C.: Siemens and General Electric Railway Signal Co., Ltd., North Wembley, Middx., £1,533 and £1,451, respectively (recommended).

Stockport, Ches. — Renewal of electrical installation at Alexandra Park Primary School for B.C. — F. Mather and Co., 2 Union Road, Stockport, £2,498.

Stockton-on-Tees, Dur.—Electrical installation in the Hardwick shopping centre for B.C. — William Bros., Stockton, £2,042.

Walthamstow, Essex.—Electrical installations at Avon Road and Fyfield Road for B.C.—Woodford Electrical Co., 56 High Road, Woodford Bridge, £1,851 (recommended).

FENCING

Eccles, Lancs. — Supply and erection of fencing on the south-west side of Winton Park and the Ryder Playing Fields for B.C. —Thomas Bowen, Ltd., Bowen Street, Parkfields, Wolverhampton, £2,857 and £430 (recommended).

Edmonton, Middx.—Provision of wrought-iron fencing for the Galliard Road frontage of Barrass Recreation Ground for B.C.—T. W. Palmer and Co., Ltd., 371 Church Road, London, S.W.19, £594 (recommended).

Ipswich, Suffolk.—Replacement of the existing chestnut post and wire fencing on the northern and western boundaries of Chantry Park by a concrete post and chain link fencing for B.C.—Direct Labour, estimated cost £500.

Manchester.—Fencing works at Langley estate for City Council—Dura Fencing (Northern), Ltd., Eccles (recommended).

Middlesbrough, Yorks.—Supply of 866 lin. yd. of fencing for B.C.—Sheepbridge and Co., Ltd., Chesterfield, £1,573 (recommended).

Oxford.—Provision of chain link fencing at Barton Recreation Ground for City Council —J. B. Corrie (Flextella), Ltd., Frenchmans Road, Petersfield, Hants, £949 (recommended).

Surbiton, Surrey.—Fencing various recreation grounds and open spaces for B.C.—Challenge Fencing Co., £1,729 (recommended).

GAS AND WATER SUPPLY

Barnsley, Yorks.—Construction of Mossley and Cross service reservoirs including mains for B.C.—Laeven, Ltd., 51 Foundry Street, Dewsbury, £61,276 (recommended, subject to Ministry approval).

Loddon, Norfolk.—Provision of water softening plant at Hales Hospital for East Anglian Regional Hospital Board—Permutit Co., Ltd., Permutit House, Gunnersbury Avenue, London, W.4, £1,437 (recommended).

Newton Abbot, Devon. — Construction of regional water supply scheme (stage I) for R.D.C.—R. Costain, Ltd., 111 Westminster Bridge Road, London, S.E.1, £74,353.

Oxford.—Fitting of an automatic chlorine controller actuated by recorder gear at Swinford Waterworks for City Council—Wallace and Tiernan, Ltd., Power Street, Chiswick, London, W.4, £1,153 (recommended).

Portsmouth.—Automatic pumping station at Great Salterns Lake for City Council: (1) Constructional works — Denis Bennett, Ltd., Wallington, Fareham, £4,846 (recommended); A. L. J. Davis (Public Works), Ltd., £5,396; A. E. Farr, Ltd., £5,547; Southern Counties Construction Co., Ltd., £5,996; Reed and Mallik, Ltd., £6,912. (2) Pumping machinery — Gwynnes Pumps, Ltd., London, W.6, £3,630 (recommended); Pulsometer Engineering Co., Ltd., £3,990; Drysdale and Co., Ltd., £4,209; W. H. Allen, Son and Co., Ltd., £5,141; Sulzer Bros. (London), Ltd., £7,071.

Stratford-upon-Avon, War.—Sinking of standby borehole at Ryon Hill and ancillary works for B.C.—Penberthy, Ltd., Brighton, £9,083 (recommended, subject to Ministry approval).

West Dorset.—Construction of a water main to Swyre and Puncknowle for the West Dorset Water Board — William Press and Son, Ltd., Abbey Grounds, Abingdon, Berks., £11,919. Work about to commence.

West Kesteven, Lincs.—Construction of a small pumping station (15ft. by 11ft.) at Wilsford Heath, and connections to existing cast-iron water mains for R.D.C. Elliott and Brown, consulting engineers, Stanley House, Pelham Road, Nottingham—Stirton Partners, Ltd., 3 St. Mary's Place, Stamford, Lincs., £5,081.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Portsmouth.—Twelve test borings for the Portsmouth Harbour reclamation scheme for City Council—G. Wimpey and Co., Ltd., Hammersmith Grove, London, W.6, £4,280 (recommended).

HEATING AND VENTILATING

Aylsham, Norfolk.—Provision of water softening and treatment plant at St. Michaels Hospital for East Anglian Regional Hospital Board—Barrett and Wright, Ltd., 1a St. Miles Alley, Norwich, £3,350 (recommended).

Bolton, Lancs.—Boiler house plant at Wellington Yard main garage for B.C.—Wilfred L. Crumblehulme (Bolton), Ltd., 104 Derby Street, Bolton (recommended).

Dorchester.—Installation of hot water services in 159 houses for B.C.—Southern Electricity Board, £7,788 (recommended).

Hull. — Low-pressure hot water heating and domestic hot water supply installation at new Central Transport Offices for City Council—Humber Heating Co., Ltd., Portland Street, Kingston upon Hull.

Leamington Spa, War. — Installation of hot water systems in 22 additional houses at Rushmore estate for B.C.—T. Bates and Sons, Ltd., Warwick Road, Kenilworth, £4,178 (recommended).

Lincoln.—Mechanical coal handling plant at Bracebridge Heath Hospital for Sheffield Regional Hospital Board—J. Procter, Ltd., Hammerton Street, Burnley, £5,929 (recommended).

Newark, Notts.—Centralised boiler plant and heating services at physiotherapy department and nurse training school at Newark Hospital, for Sheffield Regional Hospital Board—Ashwell and Nesbit, Ltd., 62 Clarendon Street, Nottingham, £5,611 (recommended).

Newmarket, Suffolk.—Mechanical engineering services for new boiler house and plant at Newmarket General Hospital for East Anglian Regional Hospital Board—Norris Warming Co., Ltd., Burley House, Theobalds Road, London, W.C.1, £85,737 (recommended).

Stockton-on-Tees, Dur. — Heating and hot water installation for the new Hardwick Infant School, for B.C.—Spoors, Ltd., Bishop Auckland, £3,280.

Surbiton, Surrey.—Installation of an oil-fired boiler, etc., at Council offices for B.C.—

Urquhart's (1926), Ltd., 5 Wadsworth Road, Perivale, Greenford, Middx., £1,084 (recommended).

HOUSING SCHEMES

Blackburn, Lancs.—Erection of a further 44 dwellings, Montague Street redevelopment area for B.C.—Direct Labour (recommended, subject to Ministry approval).

Bury St. Edmunds, Suffolk.—Seventeen dwellings, four flats and 10 garages at Hollow Road estate, for B.C.—Bury St. Edmunds Development Co., Ltd., Vinery Road, Bury St. Edmunds, £31,725 (subject to Ministry approval).

Cardiff. — Following for City Council: 40 houses at Penyrheol (for sale)—Direct Labour; four two-storey flats for old people at New Borough Avenue, Llanishen—H. Nurton and Sons, Ltd., 1 Ystrad Street, Cardiff, £5,038 (recommended).

Chertsey, Surrey. — Thirty-six dwellings, 22 garages and site works, including demolition, access road and services at Fairoaks, Liberty Lane, Addlestone (contract 68) for U.D.C.—Mathew James and Co., Ltd., 15 Thayer Street, London, W.1, £60,197. Work commencing Dec.

Dewsbury, Yorks.—Eighty-two dwellings and 17 brick garages, construction of roads and sewers, and the erection of fencing along the canal side on the Thornhill Lees redevelopment area (scheme 1) for B.C.—John McCormick (Rochdale), Ltd., Rochdale, £150,985 (recommended, subject to Ministry approval).

Doncaster, Yorks. — Following for R.D.C.: Twenty-five unit, two-storey block of aged persons' flatlets at Marlborough Avenue, Askern, and 25 unit, two-storey block of aged persons' flatlets at Queen Mary's Crescent, Kirk Sandall. J. A. Williams, surveyor—J. H. Gilbert, Ltd., 15 Cemetery Road, Doncaster, £31,044 and £30,960, respectively.

Ealing, Middx.—Erection of flats at Windsor Road for B.C.—George Moss and Sons, Ltd., Cranleigh Wharf, Lady Margaret Road, Southall, £14,200, and P. G. Wellfair, Ltd., 93 Carlyle Avenue, London, N.W.10, £9,977 (recommended).

Grantham, Lincs. — One hundred and one dwellings at housing site 10, Earlesfield, scheme 58, for B.C.—W. Dobie and Sons, Ltd., 72 Chignall Road, Chelmsford, Essex, £156,415 (recommended, subject to Ministry approval).

Haltemprice, Yorks. — Forty houses on the Manor House estate and 12 flats on the Crescent Street site for U.D.C.—R. L. Edmond and Co., Ltd., Ferndale Avenue, Willerby, Yorks., £65,898 and £16,328, respectively.

Hull. — Following for City Council: One hundred and eighty-eight dwellings and 51 garages, Boothferry estate—Direct Labour (subject to Ministry approval).

Twelve-storey block of flats between Nornabell Street and Barnsley Street—Truscon, Ltd., 35-41 Lower Marsh, London, S.E.1.

Loughborough, Leics. — Five bungalows at Deane Street for B.C.—William Davis and Co. (Leicester), Ltd., Forest Road, Loughborough, £5,934 (recommended, subject to Ministry approval).

Middlesbrough, Yorks.—Twenty-six houses, six flats and 11 garages at Easterside for B.C. J. A. Kenyon, borough engineer—Emco (Builders), Ltd., Middlesbrough, £52,525.

Montrose, Angus.—Forty houses at North Street and Orange Lane for the Burgh Council. W. M. Patrick and Partners, architects, 18 South Tay Street, Dundee—R. Pert and Son, Ltd., Lower Balmain Street, Montrose — builder work, £32,858; carpenter and joiner, £15,122; smith and fencing, £1,708; floor tiling, £338; grates, £945; slater and roughcast, £2,795. Laird Bros., Gowanbank, Forfar—plaster and concrete, £3,222; glazier—£262. Colin Wood and Co., Baltic Street, Montrose—plumber work, £5,638. Stenson and Co., Station Road, Laurencekirk — electrical work—£1,439.

Norwich.—Erection of houses at Little Plumstead Hospital, for East Anglian Regional Hospital Board—T. Gill and Son (Norwich), Ltd., Hall Road, Norwich, £20,396 (recommended).

Ormskirk, Lancs.—Six two-bedroom and two three-bedroom houses and 12 one-bedroom bungalows on the Truscott estate, Burscough, for U.D.C.—J. and R. Woods, Burscough, £26,389.

Oulton, Norfolk. — Two staff houses at Lothingland Hospital for East Anglian Regional Hospital Board—R. G. Carter, Ltd., Drayton, Norwich, £5,197 (recommended negotiated tender).

Oxford. — Twelve houses at Blackbird Leys estate (section IIIa) for City Council—John Laing and Son, Ltd., Mill Hill, London, N.W.7, £24,315 (recommended, negotiated tender).

Portsmouth.—Following for City Council: Nine houses at Prince George Street—Basford and Sons (Contractors), Ltd., Northwoods, Fareham Road, Gosport, £16,350 (recommended); W. J. Waldron, £17,780; J. C. Nicholls, Ltd., £18,250; A. E. Porter and Son, Ltd., £24,819; H. Jones and Son (Portmouth), Ltd., £25,679.

Six flats, 12 bungalows and six garages at Karen Avenue—J. H. Day (Builders), Ltd., 9 Woodfield Avenue, Farlington, Portsmouth, £37,954 (recommended, in lieu of previous tender).

Prestwich, Lancs.—Erection of one block of five old people's bungalows at Turnbull Avenue for B.C. J. T. Kilner, borough engineer—Bleakley and Ingham, Ltd., Mellor Street, Radcliffe, Lancs. Work to commence within two months.

Scunthorpe, Lincs. — Seventy-two dwellings at Westcliff estate for B.C.—Direct Labour (recommended, subject to Ministry approval).

Shrewsbury, Salop. — Following for B.C.: P. T. Morris, borough surveyor. Six houses, two bungalows, two shops, 19 garages, and alterations to Monkmoor Hall Farm, to provide new dairy and calf boxes. The works are on several sites, all in the Crowmoor district—M. A. Boswell (Contractors), Ltd., 124 Compton Road, Wolverhampton, £24,426 (recommended, subject to Ministry approval).

Sixty-seven dwellings, 19 garages and one shop at Ditherington — M. A. Boswell (Contractors), Ltd., £109,516 (recommended, subject to Ministry approval); Wilson Lovatt and Sons, £116,120.

Sunderland, Dur.—Ninety and 114 houses on the Hylton Red House estate for B.C. H. C. Bishop, borough architect — L. W. Evans (Contractors), Ltd., Norfolk Street, Sunderland, £109,248, and Direct Labour, £158,990, respectively.

Willesden, Middx.—Erection of block N, South Kilburn redevelopment scheme, comprising 44 maisonnettes, a laundry, five garages and car parking space for B.C.—Direct Labour, £132,955 (recommended).

York.—Following for City Council. E. Firth, city architect: Forty-one dwellings at the rear of Brackenhill, St. George's Place—Sorrell (York), Ltd., 95 Heworth, York, £54,213.

Eight houses at Naburn Lane, Fulford—D. Hughes and Sons, Dennison Street, Huntingdon Road, York, £13,086.

Sixty-two dwellings, Windsor Garth, Acomb—Robert Dunkerley and Sons, Ltd., 9 Highfield Road, Doncaster, £77,914.

MATERIALS AND SUPPLIES

Smethwick, Staffs. — Supply of dustbins for B.C. — Co-operative Wholesale Society, Ltd., Hall Street, Dudley, £1 10s. 3¾d. per bin, inclusive of purchase tax (recommended).

PLANT AND MECHANICAL TRANSPORT

Blackburn, Lancs.—Supply of a Weatherill 12H hydraulic loading shovel for B.C.—F. E. Weatherill, Ltd., Welwyn Garden City Herts., £2,041 (recommended).

Cheltenham, Glos. — Supply of a Bedford vehicle for B.C.—Haines and Strange, Ltd., 131 High Street, Cheltenham, £951 (recommended).

Durham.—Supply of following for C.C.: One diesel engined two-tool air compressor with air hoses: F. Gibson and Co. (Newcastle), Ltd., Haddricks Mill Road, Gosforth, £1,069 less 2½ per cent.; six 1,000-gallon diesel engined mechanical gully emptiers—Minories Garages, Ltd., Jesmond Road, Newcastle, 2, £14,348; 20 single-blade pusher-type snowploughs—Wm. Smith and Sons, Grove Works, Barnard Castle, £1,657; four 1 cu. yd. diesel engined dumper wagons Service Engines (Newcastle), Ltd., Gt. Lime Road, Newcastle, 12, £1,439; four 5-ton capacity fibre glass independent gritter bodies—Atkinson's Agricultural Appliances, Ltd., Enterprise Works, Clitheroe, £2,760; seven industrial tractors and seven hydraulic loading shovel attachments — R. H. Patterson and Co., Ltd., Forth Street, Newcastle, 1, £5,166 and £1,120 less 2½ per cent.; seven 3-ton hydraulic tipping trailers—Metcalfes toria Road, Darlington, £1,423 less 5 per cent.; seven diesel-driven mower attachments—Ord and Teasdale, Ltd., 129 Victoria Road, Darlington, 1,423 less 5 per cent.; one spreader finishing machine—Blaw Knox, Ltd., London, £5,281 less allowance of £1,600 for two old machines; Bedford diesel van — Sherwood Bros., Darlington, £933 (all recommended).

Enfield, Middx.—Supply of 10/7 concrete mixer (including hydraulically operated hopper) for B.C.—Moores Plant, Ltd., 105 Markfield Road, London, N.15, £564 (recommended).

Ipswich, Suffolk.—Supply of a Karrier Yorkshire 7-ton 1,200-gallon combined gully and cesspool emptier for B.C.—McNamara Motors, Ltd., 159 Saint Helens Street, Ipswich, £3,432.

Leeds.—Supply of following for City Council—Self-propelled 4-ton mobile crane—R. H. Neal and Co., Ltd., Plant House, Longfield Avenue, London, W.5, £4,360; two lorry-mounted compressors with various tools — Wm. G. Search, Ltd., Market Works, Whitehall Road, Leeds, 12, £3,380, a Thames 10/12cwt. builders' truck and a Thames 5cwt. van—Magnetic Motors, Ltd., Water Lane, Leeds, 11 (all recommended).

Middlesex. — Supply of three suction road sweepers for C.C.—Johnston Bros. (Engineering), Ltd., 57 The Broadway, London, W.5, £3,775 each (recommended).

Richmond, Yorks. — Supply of a truck for B.C. — T. Wishart, Ltd., Crook, £1,230 (recommended).

Scunthorpe, Lincs.—Supply of a Commer Karrier refuse collection vehicle for B.C.—Parker and Co. (Scunthorpe), Ltd., Doncaster Road, Scunthorpe, £3,041 (recommended).

Stockport, Ches.—Supply of a 5-ton articulated vehicle and crane for B.C.—Culvers Car Mart, Ltd., Moseley Road, Manchester, 14, £2,212.

Sunderland, Dur.—Supply of a Merryweather 100ft. hydraulically operated turntable ladder, embodying A.E.C. diesel engine chassis with 130-b.h.p. diesel engine, six-man cab, and new ladders, and self-contained diesel-driven pumping unit having capacity of 350-500 g.p.m. for B.C. — Merryweather and Sons, Ltd., Greenwich High Road, London, S.E.10 (recommended). Estimated cost £12,250.

PLAYING FIELDS, PARKS, ETC.

Ealing, Middx.—Following for B.C.: Development of open spaces on housing estates—J. S. Bishop and Co., Ltd., Slough, Bucks, £978 (recommended).

Laying out of Clayponds estate—J. S. Bishop and Co., Ltd., Slough, Bucks, £5,645 (recommended); Maxwell M. Hart, Ltd., £6,123; Sherwood Bros. (Agri Service), £6,327; Hugh Pearl (Contracts), Ltd., £7,754; Grassphalte, Ltd., £7,992; En-Tout-Cas Co., £11,665.

Edmonton, Middx. — Turfing and planting children's playground at Flamstead End estate for B.C.—Peter Adams, Ltd., Cranley Gardens, London, N.10, £868 (recommended).

Enfield, Middx.—Following for B.C.: Layout of playing fields and grounds at Capel Manor Primary School—Hugh Pearl Contracts, Ltd., Bovinger, Ongar, Essex, £2,021 (recommended); Maxwell M. Hart, £2,382; En Tout Cas Co., Ltd., £3,809; E. Doe and Sons (Contracts), Ltd., £2,321; Grassphalte, Ltd., £2,668; William Wood and Sons, Ltd., £3,908; J. S. Bishop Co., Ltd., £2,860; Greensward (Contracts), Ltd., £3,032.

Layout of Aylands open space—Hugh Pearl (Contracts), Ltd., £2,242 (recommended); En Tout Cas and Co., Ltd., £2,929; W. M. Wood and Son, Ltd., £2,865; E. Doe and Sons (Contracts), Ltd., £2,476; J. S. Bishop and Co., Ltd., £2,598; Greensward (Contracts), Ltd., £2,707; Grassphalte, Ltd., £3,166.

Laying out and fencing of the playing field at Chace Secondary Girls' School—Maxwell M. Hart (London), Ltd., 248 Beulah Hill, London, S.E.19, £4,745 (recommended); Hugh Pearl Contracts, Ltd., £4,988; E. Doe and Sons (Contracts), Ltd., £4,861; En Tout Cas Co., Ltd., £5,064; Shorters Contracts Co., Ltd., £5,377; Greensward (Contracts), Ltd., £5,444; Grassphalte, Ltd., £4,778.

Construction of tennis courts at Bush Hill Park—Maxwell M. Hart. £2,781 (recommended); Hugh Pearl Contractors, Ltd., £3,621; E. Doe and Sons (Contractors), Ltd., £3,223; En Tout Cas Co., Ltd., £3,044; Shorters Contracts Co., Ltd., £3,855; Grassphalte, Ltd., £3,188.

Kingston - upon - Thames, Surrey. — Site clearance, etc., at Palace Estate Playing Fields for B.C.—Advance Plant Contractors, Ltd., 100 Godstone Road, Whyteleafe, Surrey, £2,061 (recommended).

Leeds.—Reconstruction of four tennis courts at Roundhay Park and three tennis courts at Meanwood recreation ground for City Council—En-Tout-Cas Co., Ltd., Syston, Leicester, £1,711 (recommended).

Oxford.—Development of the Sandy Lane Gardens, Blackbird Leys estate, for City Council—J. S. Bishop and Co., Ltd., Slough, Bucks., £7,468 (recommended).

Potters Bar, Middx.—Laying out of playing field at Sunny Bank Primary School, for Co. E.C.—Hugh Pearl (Contractors), Ltd., Bovinger, Ongar, Essex, £1,136 (recommended).

Smethwick, Staffs.—Second stage of work at Hadley playing fields for B.C. Maxwell Hart (Glasgow), Ltd., 163 Buchanan Street, Glasgow, C.1, £14,394 (recommended).

RAILWAY ENGINEERING

British Railways. — Following contracts placed:

Southern Region.

Bricklayers' Arms Motive Power Depot: construction of new lift shafts—Taylor Woodrow Construction, Ltd., Southall, Middx.

Bournemouth Central: station renovations—C. and T. Painters, Ltd., London, N.W.10.

Feltham Marshalling Yard: improved drainage—G. E. Wallis and Sons, Ltd., London,, W.C.2.

London (Western) District: cleaning and painting of bridges—James Robb and Son, Ltd., London, S.E.3.

Bramley and Mortimer: station renovations—James Robb and Son, Ltd., London, S.E.3.

Between Elephant and Castle and Loughborough Junction: repairs to viaduct—Aerocem, Ltd., London, W.1.

Feltham Station: repairs to Crane Road—E. C. MacDermot and Co., Wembley, Middx.

Slade Green Repair Shop: improvements to ventilation — Norris Warming Co., London, W.C.1.

Portsmouth Harbour: dismantling of disused railway viaduct — Caffin and Co., Ltd., London, W.C.2.

Downton: reconstruction of Avon River viaduct — Caffin and Co., Ltd., London, W.C.2.

RIVER AND FLOOD PREVENTION WORKS

Surbiton, Surrey.—Improvements to tributary 1 of the Hogsmill River for the Co. Rivers and Streams Committee—Direct Labour. Estimated cost £5,000.

ROADS, BRIDGES AND SITE WORKS

Accrington, Lancs. — Asphalt surfacing of trunk, county and district roads during current financial year for B.C.—Trinidad Lake Asphalt Co., (North Western), India Buildings, Water Street, Liverpool.

Ampthill, Beds. — Construction of footpaths, verges and ancillary works at the Trunk Furlong estate, Aspley Guise, for R.D.C.—F. C. Andrews, 133 Marsh Road, Luton, Beds., £2,644.

Aylesbury, Bucks.—Construction of footpaths (about 800 sq. yd. in total) on the housing estates at Aston Clinton, Haddenham, Long Crendon and Waddesdon for R.D.C. Raymond C. White, architect, 4 Temple Square—Roads Reconstruction (Contracting), Ltd., 106 Gold Street, Wellingborough, Northants, £1,897 (provisionally accepted, subject to Ministry approval); Johnson Bros. (Contractors), Ltd., £1,917; Bridgwater Bros., £2,125; Bicester Stone Co., Ltd., £2,514.

Bexley, Kent.—Widening and improvement of Bellegrove Road between Welling Way and the borough boundary, and surface water sewer between Westwood Lane and the "We Anchor in Hope" public house for B.C.—Mears Bros. (Contractors), Ltd., Braystones, Preston Grove, Faversham, £68,817.

Blackburn, Lancs.—Asphalt paving of drying areas for 36 flats (scheme 58), Montague Street redevelopment area and surfacing playground at St. Stephen's C.E. School for B.C. — Trinidad Lake Asphalt Co. (North Western), Ltd., India Buildings, Water Street, Liverpool (recommended).

Bolton, Lancs.—Surfacing of Spa Road from Mayor Street to Gilnow Mill, for B.C.—Trinidad Lake Asphalt Co. (North Western), Ltd., India Buildings, Water Street Liverpool (recommended). Estimated cost £3,000.

Bristol. — Laying of access way and garage bases for 17 garages at Ermine Way, Shirehampton, and laying of access ways and garage bases and provision and erection of nine garages adjoining 59 Pembroke Road, 6 Apsley Road and 4 Burlington Road for B.C.—R. Hobbs and Co., Plantation Works, Portbury, Bristol, £2,774 and £1,980, respectively (recommended).

Bromley, Kent. — Widening of Baston Road from West Common Road to Haynes Secondary School for B.C.—Johnson Bros. (Aylesford), Ltd., Broad Oak Road, Canterbury, £21,384 (recommended).

Bury St. Edmunds, Suffolk.—Widening of Hospital Road, contract 1, for B.C.—D. and H. (Contractors), Cambridge, Ltd., 83a Regent Street, Cambridge, £12,297 (subject to M.T. approval).

Cardiff.—Following for City Council: Provision of trolley bus turning space at Whitchurch Road—Direct Labour, £9,514 (recommended in lieu of previous tender).

Completion works at Manorbier Crescent —Direct Labour, £21,000 (recommended).

Carlisle, Cumb.—Following for City Council —Formation of footpaths for stage 4 of the Morton development—Direct Labour (recommended). Estimated cost £16,225.

Extension of the cemetery, together with drainage works and construction of footpaths and roads—Border Engineering Contractors, Ltd., 125 Queen Street, Whitehaven, £6,943; flagging portions of Warwick Road between Victoria Road and the city boundary — H. MacDermott, £3,559 (both recommended, subject to Ministry approval).

Cheltenham, Glos. — Construction of new entrance roadway and car park at King George V playing field for B.C.—Chesford Construction Co., Ltd., Parton Road, Churchdown, £2,106 (recommended).

Deal, Kent.—Widening Mill Road for B.C.—Bowzell (Surfacing), Ltd., Wellington House, Walmer, Deal, £19,577 (recommended).

Derbyshire.—Construction of a 33ft. carriageway from Cromford Crossroads northwards towards Masson Mills for C.C., comprising 14,300 cu. yd. rock excavation; 4,500 cu. yd. earth excavation; tree felling; drainage; premixed waterbound macadam foundation; 4,900 sq. yd. 3in. bitumen macadam base course; 1,000 lin. yd. kerbing; fence and retaining walls. S. Mehew, county surveyor —John Brown and Sons (Wolverhampton), Ltd., Chell Street, Hanley, Stoke-on-Trent, £42,591. Work about to commence.

Dudley, Worcs. — Development of land at Wolverton Road to include a car park, children's playground and gardens for B.C.—Bulldozers (Kingswinford), Ltd., 38 Penzer Street, Kingswinford, Brierley Hill, £15,651 (recommended, subject to Ministry approval).

Ealing, Middx. — Making-up service road at Hangar Lane for B.C.—Donovan and Denny, Ltd., 154 Stanley Road, Teddington, £1,045 (recommended).

Eastbourne, Sussex. — Following for B.C.: Construction of cul-de-sac at Chatfield-Davis estate, rear of Binsted Close and Faygate Road—Direct Labour (recommended). Estimated cost £4,350.

Surfacing approximately 20,500 sq. yd. of carriageway with a ¾in. consolidated thickness of cold asphalt, incorporating precoated granite chippings—Constable, Hart and Co., Ltd., Lion House, Red Lion Street, Richmond, Surrey, 5s. 10d. per sq. yd. (recommended); George Wimpey and Co., Ltd., 6s. 2½d. per sq. yd.; Chittenden and Simmons, Ltd., 6s. 3½d. per sq. yd.

Eccles, Lancs.—Improvement of the bridge over Folly Brook on the Worsley Road (A.575) for B.C. — Direct Labour (recommended).

Edmonton, Middx.—(a) Widening of Montagu Road at level crossing, and (b) re-laying of pedestrian crossings at Silver Street, Angel Road, Fore Street and Hertford Road for B.C.—(a) Direct Labour, and (b) Mowlem



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MECHQUIP

Paving Co., Ltd., 19 Grosvenor Place, London, S.W.1, £956 (recommended).

Enfield, Middx. — Provision of following for B.C.: Concrete practise wickets, tennis courts and jumping pits at Ambrose Fleming School—Grassphalte, Ltd., 90 High Street, Hampton Hill, £3,250 (recommended); Maxwell M. Hart, £3,649; En Tout Cas Co., Ltd., £4,126; E. Doe and Sons (Contracts), Ltd., £3,713; J. S. Bishop Co., Ltd., £4,086; Greensward (Contracts), Ltd., £3,663.

Three hard tennis courts at Enfield Lower Grammar School — Maxwell M. Hart (London), Ltd., 248 Beulah Hill, London, S.E.19, £2,283 (recommended); Hugh Pearl Contracts, Ltd., £2,992; E. Doe and Sons (Contracts), Ltd., £2,661; En Tout Cas Co., Ltd., £2,585; Shorters Contracts Co., Ltd., £3,247; Grassphalte, Ltd., £2,700.

Gateshead, Dur.—Preparation of land at East Gateshead for redevelopment, including the provision of roads and sewers for B.C. —Tarmac Civil Engineering, Ltd., Ettingshall, Wolverhampton, £79,357 (recommended).

Gravesend, Kent.—Renovation of gravel drive in tarmacadam at Appledore, Hillside Drive, for L. B. Burgess—Hodsons, Ltd., 17 Wrotham Road, Gravesend.

Hambledon, Surrey.—Site development works at Middleton Close, Chapel Lane, Milford, contract 2, for R.D.C. R. F. Caple, engineer and surveyor—Watts Bros. Co., Ltd., Moulsham Copse Lane, Yateley, near Camberley, £1,460 (accepted); G. W. King (Wokingham), Ltd., £1,506; R. H. McCulloch, Ltd., £1,648; Roads Reconstruction, Ltd., £1,500.

Horsforth, Yorks. — Tarmacadam drying areas to the rear of flats in Featherbank Lane, Broadway, for U.D.C. J. Marsden, engineer and surveyor—Webster Bros., Ltd., Horsforth, £1,159 (recommended). Work commencing in the near future.

Huddersfield, Yorks. — Making-up of The Grove and Roydfield Street, Fartown, for B.C. A. L. Percy, borough engineer and surveyor—D. J. Bates and Co., Ltd., 2 Yew Tree Road, Birchencliffe, Huddersfield. Work commencing two to three weeks.

Ipswich, Suffolk.—Repairing the playgrounds at Whitton Special, Landseer Secondary Modern, Rushmere Hall Junior, Sidegate Lane Primary, Springfield Junior and Whitton Junior and Infants' Schools for B.C.—Limmer and Trinidad Lake Asphalt Co., Ltd., West End Ipswich, £2,769.

Keighley, Yorks.—Roads and sewers on the Bogthorn estate for B.C. Work includes 5,000 cu. yd. excavation, 1,500yd. sewers, 7,300 sq. yd. carriageway and footpaths—A. E. Morris (Yorkshire), Ltd., Russell Street Chambers, Bingley.

Kendal, Westmor. — Following for B.C.: Private street works in part of Helmer Drive — J. Chaplow and Sons, Ltd., Helsington, Kendal, £1,186; construction of further roads and sewers on the Wattsfield estate—W. H. Ainsworth and Co., Ltd., Sand Gate, Sandylands, Kendal, £17,693 (both recommended).

Leamington Spa, War.—Reconstruction of Lower Avenue, for B.C.—Galliford and Sons, Ltd., The Heath, Wolvey, Hinckley, Leics., £14,875 (recommended).

Leeds. — Following for City Council: Reinstatement of carriageway and footpaths in Clarence Road — Leake and Carney, Ltd., 11 Holmfield Lane, Wakefield, £1,839; repair of Pontefract Lane between the level crossing at its junction with Knowsthorpe Lane and a point east of the entrance to open cast coal disposal site—Direct Labour estimated cost £5,500 (both recommended).

Leyton, Essex. — Site works for garages at Argyle Road, Kings Road and Ashville Road for B.C.—Direct Labour (recommended). Estimated cost £1,500.

Maidenhead, Berks. — Reconstruction of Queen Street (part) for B.C.—W. and J. Glossop, Ltd., 123 East Hill, London, S.W.18, £7,736 (recommended, in lieu of previous tender).

Maidstone, Kent.—Making-up of Beaconsfield Road and resurfacing of carriageway in High Street for B.C.—A. H. Hooker and Sons, Otham, Maidstone, £3,583, and Limmer and Trinidad Lake Asphalt Co., Ltd., Trinidad Lake House. Vauxhall Bridge Road, London, S.W.1, £3,148, respectively (recommended).

Northampton.—Reconstruction and improvement of approximately 200 lin. yd. of Bedford Road, A.428, for B.C.—Kottler and Heron, Ltd., Cliftonville, Northampton, £11,178 (accepted); J. E. Lucas, Ltd., £11,511; Tandy and Richmond, £12,066; Brooks and Johnson, £12,997. Work commencing Nov. 21.

Northholt, Middx.—Surfacing works at Church Road for C.C.—George Wimpey and Co., Ltd., Hammersmith Grove, London, W.6, £4,790.

Norwich.—Roadworks for houses at Little Plumstead Hospital, for East Anglian Regional Hospital Board—E. J. Edwards (Norwich), Ltd., Plumstead Road, Norwich, £4,013 (recommended).

Peterborough.—Reconstruction of Gunthorpe Road and Ivy Grove for City Council—Kimbell (Road Construction), Ltd., Chapel Brampton, Northampton, £34,450 (recommended).

Portsmouth.—Reinstatement of footpath at Moneyfields Avenue / Burrfields Road, strengthening and resurfacing Stamshaw Road and making-up of Dorking Crescent, for City Council—Direct Labour (recommended). Estimated cost £1,350, £10,000 and £8,620, respectively.

Radnorshire. — Work on the Dolaw Jenkin Bridge for C.C.—Norman Hughes and Co., Ltd., Ruthin, £5,296. Work about to commence.

Ramsgate, Kent.—Resurfacing footway at Royal Parade and Paragon for B.C.—Chittenden and Simmons, Ltd., Larkfield, Maidstone, £1,177 (recommended).

Sandown and Shanklin, I. of W.—Reconstruction of Vinings Gardens, Sandown, for U.D.C.—Cheek Bros., Church Litten, Newport, I. of W., £657. Work commencing shortly.

Smethwick, Staffs.—Reconstruction of Crawford Street for B.C.—J. Mannion and Co., Ltd., Guildhall Buildings, Navigation Street, Birmingham, 2, £21,788 (recommended).

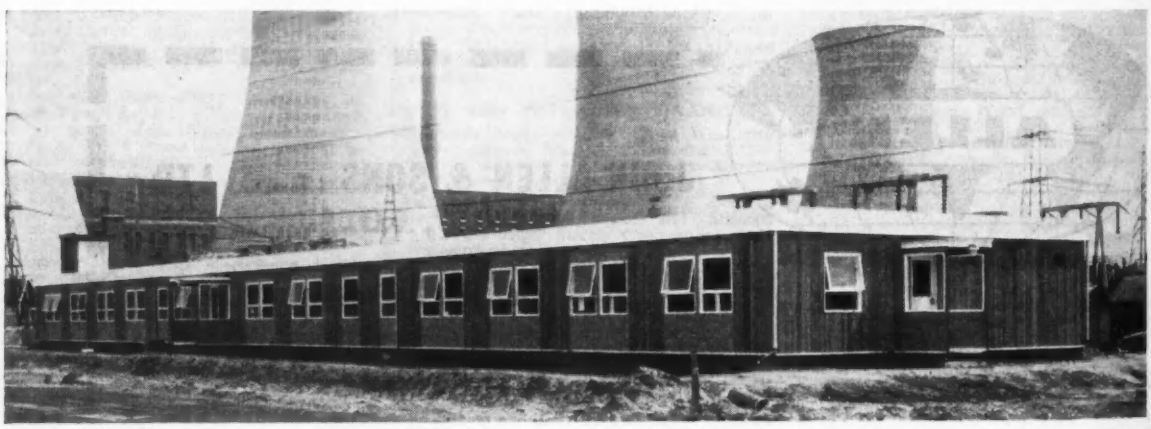
Southend - on - Sea, Essex.—Construction of Pier Hill footbridge and pier steps for B.C.—A. and C. Barvis, Ltd., Manor Works, Church Road, Thundersley, £9,979.

Stirlingshire.—Constructon of a new bridge over the Glazert Water and the approaches connecting with the Callander-Kirkintilloch Road, B.822, at the east end of Lennoxtown, for C.C. Bridgeworks comprise reinforced concrete superstructure with mass concrete abutments, river span 50ft.; width between parapets 32ft.; and total length of approaches 120yd. James D. Doull, county road surveyor—The Broadside Construction Co., Ltd., 142 Waterloo Street, Glasgow, C.2.

Stockport, Ches.—Final carpeting of carriageways at Brinnington and Hillcrest Road estates and making-up of Marsland Terrace for B.C.—North Lonsdale Tar Macadam, Ltd., Albion Works, Sheffield, £3,870, and Bituminous Surfacing (1953), Ltd., Lime Bank Street, Manchester, 12, £1,853, respectively.

Stockton-on-Tees, Dur. — Construction of roads and sewers, etc., in the Victoria area

RIGHT from the start !



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(stage III) for B.C. G. Cowan, borough engineer—Ideal Builders, (Redcar), Ltd., Redcar, £29,966.

Stoke-on-Trent, Staffs. — Following for City Council: Improvement of Waterloo Road, Cobridge and London Road, Stoke—Roy Beech (Contractors), Ltd., 9 Brook Street, Stoke-on-Trent, £8,383; making-up of Severn Street, Cobridge, and the service road off Malthouse Road, Bucknall —F.H.M. Contractors, Ltd., Brook Lane, Newcastle-under-Lyme, £2,362 and £2,312, respectively (recommended).

Surbiton, Surrey.—Following for B.C.: (a) Resurfacing four hard tennis courts, and (b) the provision of slab paving during 1960-61 —W. H. Gaze and Sons, 19 High Street, Kingston-upon-Thames, Surrey, (a) £778 and (b) £10,653, respectively; reconstruction of Fairoak Lane—W. and J. Glossop, Ltd., 123 East Hill, London, S.W.18, £24,300; re-surfacing of various roads with bituminous macadam — Amalgamated Roadstone Corporation, Ltd., 15 Stanhope Gate, London, W.1 (recommended).

Surbiton, Surrey.—Cycle training layout at Fullers Way School, comprising concrete cycleway with all necessary drainage for B.C.—J. Bray, 36 River Park Gardens, Ravensbourne Avenue, Bromley, Kent, £1,190.

Swindon, Wilts.—Construction of a car park in Queen Street for B.C.—Direct Labour (recommended). Estimated cost £9,790.

Uxbridge, Middx.—Improvements at junction of Harlington Road and West Drayton Road (Merrimans Corner) for C.C.—L. Goodall and Sons, Ltd., Newport Road, Hayes, £19,404 (recommended).

Walthamstow, Essex. — Roads and sewers at Outwood Common estate (northern section) for B.C.—Hadsphaltic Construction Co., Ltd., Ibex House, Minories, London, E.C.3, £5,521 (recommended).

Wednesbury, Staffs. — Following for B.C.: Asphalt surfacing of Upper High Street—Road Surfacing Co., Ltd., 241 Hagley Road, Edgbaston, Birmingham, 16; verge and shrubbery resurfacing for this year's programme—Cyril Heap (Surfacing), Ltd., 3 Nicholls Street, West Bromwich (recommended).

Woolwich. — Following for B.C.: Laying roughened rolled asphalt surfacing to Westhorne Avenue, Wellington Street, Artillery Place, Hillreach and Court Road—Val de Travers Asphalte, Ltd., 21 Old Bailey, London, E.C.4, £15,377 (recommended); Neuchatel Asphalte (Contracting), Ltd., £15,759; The Limmer and Trinidad Lake Asphalte Co., Ltd., £15,878; Chittenden and Simmons, Ltd., £15,936; Constable Hart and Co., Ltd., £16,172; The Mowlem Paving Co., Ltd., £15,635.

Making-up of Messeter Place—Fordyce Bros., Ltd., Cray Avenue, Orpington, Kent, £5,004 (recommended); Cawood Wharton and Co., Ltd., £5,180; Ruddock and Meighan, Ltd., £5,310; Fitzpatrick and Son (Contractors), Ltd., £5,484; Mowlem (Civil Engineering), Ltd., £5,602; Percy Bilton, Ltd., £5,471; Amalgamated Asphalte Companies, Ltd., £5,770; Balls and Partners, £5,056; J. Murphy and Sons, Ltd., £6,204.

Laying single-course asphalt carpet on Green Lane, from Footscray Road to Sidcup Road—General Asphalte Co., Ltd., 116 Grafton Road, London, N.W.5, £3,163 (recommended); Neuchatel Asphalte (Contracting), Ltd., £3,213; The Mowlem Paving Co., Ltd., £3,882; Val de Travers Asphalte, Ltd., £3,832; W. F. Rees, Ltd., £3,620; Chittenden and Simmons, Ltd., £3,406; Constable Hart and Co., Ltd., £3,767; Geo. Wimpey and Co., Ltd., £3,805; Tarmac Roadstone, Ltd, £3,424.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Ashton-in-Makerfield, Lancs. — Construction of new sewage disposal works, including seven circular reinforced concrete tanks, 40ft. and 45ft. diameter, up to 14ft. in depth, four 85ft. diameter percolating filter beds, sludge beds, valve chambers, balancing tanks, recirculation pumping stations, pipework, manholes and other appurtenant works; sewerage at Bryn Gates, including 725yd. of 15in. and 12in. concrete pipe sewers, a pumping station, and 1,650yd. of 7in. diameter pumping main, manholes and other works, and 586yd. of 18in. diameter cast-iron pumping main for U.D.C. Ward, Ashcroft and Parkman, consulting engineers, 38 The Temple, Dale Street, Liverpool, 2—Hussey, Egan nad Pickmere, Ltd., 24 Calthorpe Road, Edgbaston, Birmingham, £182,831. Work to commence in the near future.

Border, Cumb.—Houghton sewage disposal works extension for R.D.C. Eden Construction Co., Ltd., English Damside, Carlisle, Cumberland. Work commencing soon.

Brighouse, Yorks.—Cooper Bridge sewage disposal works, comprising construction in reinforced concrete of a 90ft. diameter flat-bottomed humus tank, together with a new effluent carrier, wells, pipework and other ancillary works construction in reinforced concrete of a new sludge well and pump well;; construction of a new pump house; laying of approximately 1,000 lin. yd. of rising main in 6in. diameter asbestos pipes for B.C. — H. A. Sneezum, borough engineer—Hadsphaltic Construction Co., Ltd., Redhill, Surrey, £30,731. This sum includes the scraping equipment at a cost of £3,242, to be supplied by Ames Crosta Mills and Co., and £1,161 for pumps to be supplied by Sigmund Pumps, Ltd.

Darlington, Dur.—Laying of approximately 1,750yd. 6in. diameter sewer; 210yd. 6in. diameter rising main; foul and/or surface water drain to 112 properties; and the construction of pumping station at Whessoe for R.D.C.—Rama Construction Co., Ltd., Marske-by-the-Sea, near Redcar, Yorks., £19,875.

Ealing, Middx.—Provision of a mobile sewerage pump for B.C.—The Stanley Engineering Co., £828 (recommended).

Edmonton, Middx.—Laying 15in. relief sewer at Church Street for B.C. — Direct Labour (recommended). Estimated cost £4,750.

Helston, Corn. — Trescowe Common, Trescowe and Millpool water scheme for Helston and Porthleven Water Co., including for providing and laying the following approximate lengths of water mains: 3in. spun-iron with Tyton joints—2,525yd.; 1¼in. high density polythene tube to 150lb. per sq. in. — 1,225yd.; 1in. high density polythene tube to 150lb. per sq. in.—600yd.—E. Thomas and Co., Ltd., 31 Kings Avenue, Falmouth, £6,420 (accepted); Richard Costain, Ltd., £8,134; A. H. Dingle, Ltd., £6,620; J. B. Eddy, £9,954; F. W. Hunt, £7,822; Trethowan, Ltd., £9,213.

Leyton, Essex. — (a) Supply and erection of pumping equipment and control gear, and (b) provision of penstock and sluice valve units for the reconstruction of the main outfall sewer and new pumping station scheme for B.C.—(a) Gwynnes Pumps, Ltd., Chancellor's Road, Hammersmith, W.6, £8,877, and (b) Ames Crosta Mills and Co., Ltd., Abbey House, Victoria Street, London, S.W.1, £2,789 (recommended).

Loughborough, Leics. — Laying of surface water drains at Derby Road Playing Fields for B.C.—Sanderson Bros., £951 (recommended, subject to Ministry approval).

Maidstone, Kent.—Replacement of a further section of 15in. diameter foul sewer with 24in. diameter pipes, at Tovil for B.C.—Bowzell, Ltd., Wellington House, Walmer, Deal, £4,175 (recommended).

Morley, Yorks. — Construction of the Rein Road relief sewer for B.C.—Leake and Carney, Field Lane, Thornes, Wakefield (recommended).

Newbury, Berks.—Extensions to London Road pumping station and sewage disposal works for B.C.—Shephard Hill and Co., Ltd., 25 Central Chambers, Broadway, London, W.5, £117,084.

Scunthorpe, Lincs. — Construction of surface water sewer along Brigg Road from the south-east corner of the light industrial site, East Common Lane, to the Queensway for B.C. — W. Sloyan, 8 Priory Crescent, Scunthorpe, £3,300 (recommended).

Southport, Lancs. — Provision of foul and surface water sewers at the Staveley Road



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housing site (extensions 1 and 2) for B.C.—A. C. Brew, Ltd., 653 Liverpool Road, Irlam, £14,289 (recommended).

STREET LIGHTING

Burnham-on-Sea, Som.—Supply of (a) 22 sodium lanterns, lamps and electrical gear, and (b) supply and erection of 22 concrete street lighting columns, together with the fixing and wiring of the lanterns and electrical gear on the B.3139 and B.3140, contract 37, for U.D.C. G. H. Mayhew, engineer and surveyor — (a) Atlas Lighting, Ltd., 233 Shaftesbury Avenue, London, W.C.2, £242, and (b) Engineering and Lighting Co., Ltd., Sphere Works, St. Albans, Herts., £1,584. Work to commence January, 1961.

Cardiff.—Street lighting erection (contract 6) for City Council—S. A. Inston and Co., Snowsyard, Foregate Street, Stafford, £3,112 (recommended).

Ellon, Aberdeens.—Supply and erection of 21 street lighting units, complete, on trunk road A.92 within the burgh for B.C.—James A. Innes, Station Road, Ellon, £1,662 (accepted); A.E.I. Lamp and Lighting Co., Ltd., £1,801; Taylor Bros., £2,005; J. Middleton, £2,349. Work commencing December.

Haltemprice, Yorks.—Supply and erection of sodium discharge lighting at Kingston Road, Willerby, and Hull Road and Wilson Street, Anlaby, for U.D.C.—Midland Lighting and Building, Ltd., 167 London Road, Leicester, £5,203 and £3,027, respectively.

Plymouth. — Supply of concrete columns for Molesworth Road and Eggbuckland Road improvement for City Council—General Electric Co., Ltd., £1,030 (recommended).

Stockport, Ches.—Supply of 100 street lighting columns for B.C.—Concrete Utilities, Ltd., 11 Albert Square, Manchester, 2 (extension of contract).

Surbiton, Surrey.—Provision of steel columns for 1960-61 street lighting programme and link road between Kingston Road and Cox Lane for B.C.—A.E.I. Lamp and Lighting Co., Ltd., 132 Long Acre, London, W.C.2, £25,228 (recommended).

Workington, Cumb. — Installation of eight additional lamps, scheme V, for B.C.—Midland Lighting and Building, Ltd., 167 London Road, Leicester, £2,925 (recommended).

GOVERNMENT CONTRACTS

Air Ministry.—Contracts to the value of £4,000 or over for the week ended Nov. 4:

Building work: Coningsby, Lincs.—J. W. Stamp and Co., Ltd., Nuthall Road, Bobbers Hill, Nottingham; Ballykelly, Limavady, Co. Londonderry, N. Ireland—J. Kennedy and Co. (Contractors), Ltd., Society Street, Coleraine, N. Ireland; Finningley, Yorks.—Fred Pearson and Co., Ltd., 32 Cemetery Road, Doncaster, Yorks.

Artificers' work: Acklington (Northumberland), etc.—R. Carse and Son, Ltd., 15 Prospect Place, Amble, Northumberland; Jurby (Isle of Man), etc. and Weeton (Lancs.), etc—F. Parkinson, Ltd., Mowbray Drive, Blackpool, Lancs.

Roadwork (widening of roadway): London Airport, Hounslow, Middx.—Stanley Hugh Leach, Ltd., 231-231a Yeading Lane, Hayes, Middx.

Admiralty. — Particulars of contracts over £4,000 in value placed by Navy Works Department, Admiralty:

Yorkshire: renewal of cables — Sturrock Power Installations, Edinburgh.

Somerset: reconstruction of hangar floors — John Laing and Son, Ltd., Bristol, 1.

Metropolitan Police.—Recent contracts placed include:

Internal redecorations, 1-60 Byng House —A. N. Billings, Ltd., £6,582.

New building 4-6 Clapton Square, London, E.5—Geo. Barker (Builders), Ltd., £32,846.

Ministry of Works. — Contracts placed for week ended Oct. 29:

Durham: Inland Revenue Office, Hart Road, West Hartlepool—alterations and extensions — D. and J. Ranken, Ltd., Stockton, Sunderland.

Hampshire: Automatic Telephone Exchange, Hartley Wintney—erection—H. N. Edwards and Partners, Basingstoke.

London: Branch Post Office, Norbury, S.W.16 — adaptation — Whyatt (Builders), Ltd., 225 Streatham High Road, S.W.16; Cornwall House, Stamford Street, S.E.1—alterations and decorations — Whyatt (Builders), Ltd.; Queen Anne's Mansions, S.W.1—internal decoration work—Howe and White, Ltd., 35 Manor Road, Wallington, Surrey; Post Office, Burbage House, Curtain Road, E.C.2—occupational services S. G. Cobban and Co., Ltd., 6-10 Birkbeck Road, Ilford, Essex.

Oxfordshire: Sorting Office, Becket Street, Oxford — alterations to loading platform—Hinkins and Frewin, Ltd., Cranham Street, Oxford.

Staffordshire: H.M. Borstal Institution, Swinfen — erection of 50 houses—Thomas Bates and Son, Ltd., Warwick Road, Kenilworth, Warwicks.

Suffolk: Ministry of Agriculture Laboratories, Lowestoft—erection —R. G. Carter, Ltd., Drayton, Norwich.

Yorkshire: Post Office Engineering Depot, Ings Road, Wakefield — alterations and additions—Samuel Armitage and Sons, Ltd., Bradford Road, Dewsbury; Department of Scientific and Industrial Resarch, Thorp Arch — completion of adaptations—Middleton and Co. (Leeds), Ltd., Manor Works, East Ardsley; War Department Storage Depot, Yeadon — internal painting —A. Turner and Son, Ltd., 13 East Squire Lane, Bradford.

War Department.—Contracts placed for the week ended Oct. 28:

Devon (Plymouth): roadwork—W. and J. Glossop, Ltd., Exeter.

Essex (Foulness Island): roadwork—W. and J. Glossop, Ltd., London, S.W.18; (Shoeburyness): building — Mann and Robinson, Shoeburyness.

Hampshire (Portsmouth): painting and decorating—George Jones and Son (Contractors), Ltd., London, W.8.

Middlesex (Hounslow): building—Frank R. Freeman, Ltd., London, N.W.1.

Monmouthshire (Crickhowell and Abergavenny): miscellaneous — Jones Bros. (C. and R.), Ltd., Abergavenny.

Oxfordshire (Bicester): building—Bosorth and Wakeford, Ltd., Rugby.

Shropshire (Donnington): painting—T. E. Talbot and Son, Ltd., Burslem.

Surrey (Camberley): roofing — James G. Tuxford, London, S.E.

Wiltshire (Corsham): painting and decorating—W. J. Naylor and Co. (Painting Contractors), Ltd., Bristol.

Yorkshire (Selby): miscellaneous — C. Moyser and Son, Doncaster; (Catterick): roadwork—F. Shepherd and Son, Ltd., Richmond

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FIRST NEAL/UNIT EXCAVATOR MODEL ANNOUNCED

THE first product of a manufacturing agreement made earlier this year between R. H. Neal and Co., Ltd., Grantham, and the Unit Crane and Shovel Corporation of Milwaukee, U.S.A., is now on show at Olympia. Known as the Neal/Unit NU 1620, it is a ¾ cu. yd. excavator which, by conversion of the front end attachments may be used as a dragline, drag shovel, face shovel or crawler mounted crane.

The crawler frame is a heavy duty structure fabricated from rolled steel sections and plates, and reinforced by one-piece end castings that maintain alignment of drive and idler tumbler shafts. Drive sprockets are driven by means of involute splines, the idler rollers being wide faced double flanged drop forgings with manganese bronze bushings.

Crawler shoes are of the multiple hinged type manufactured from cast steel and are self-aligning. The drive sprocket guides prevent treads from jumping off if operating too loose. Track adjustment screws provide equal adjustment and alignment of end shaft bearings, tracks and drag chain.

Automatic traction brakes provide a friction type locking device for both crawlers. Self-engaged by spring action, they release automatically when power is applied and give positive braking power even on steep gradients.

Even distribution of the loadings over the entire undercarriage frame is achieved by means of a patented ball bearing swing ring. This is designed to carry axial, radial and tilting forces in a single unit without the use of a centre post. The ring is made from high tensile seamless forged steel, and ball races are surface hardened by flame heating. A swing locking device is fitted in the operator's cab which can be engaged in any position.

The turntable and machinery deck is a solid assembly of steel castings and welded steel plates and beams. It is heavily flanged and ribbed. Cross members reinforce the heavy centre casting which supports both the vertical swing and the traction shafts.

By coupling the engine directly to the main machinery through a worm box the makers have eliminated chains, reduced the number of moving and wearing parts and minimised frictional losses. Involute splined shafts are used throughout and are all carried in either ball bearings or tapered roller bearings.

The excavator has a one-piece cast main machinery case. All gears and shafts are completely enclosed and operate in a constant bath of lubricant, and the casing is jig bored for alignment.

Disc type clutches are used, comprising durable non-fade linings and flat polished steel faces.

A worm type derrick unit permits power raising and controlled lowering of the boom entirely independent of any other operation. It is protected from the dust and dirt by an enclosed oil bath and governed by an automatic spring loaded band brake. Control is by a single lever.

Fitted with a locking door and safety glass opening windows the cab affords all-round vision for the operator.

As a dragline the machine has a maximum working radius and dumping reach of 42ft. 9in. with a 45ft. boom; as a crane it will lift 35,400lb. at 10ft. radius with a 35ft. boom; and as a drag shovel it has a hoist line pull of 13,000lb. and a digging depth rating, at a 45-degree angle, of 18ft. 11½in.



Neal-Unit NU 1620 excavator equipped as a drag shovel

2½ CU. YD. TRACTOR SHOVEL BY AVELING-BARFORD

AN entry in the tractor shovel field has been made by Aveling-Barford, Ltd., Grantham, Lincs., who on their stand at the Public Works Exhibition are showing their first model, a 2½ cu. yd. machine known as the TS 250.

Leyland and Rolls-Royce diesel engines provide the alternative power units for the TS 250 which has a power-shift transmission gving two working speeds in either direction, and two forward and two reverse travelling speeds. A single stage twin-disc torque converter, ratio 3:16:1 is also fitted.



Aveling-Barford tractor shovel

Both axles incorporate Timken hi-traction differentials and planetary final drives. A clutch is provided to disconnect front wheel drive for road travel. Four-wheel service brakes are hydraulic with Hydrovac power boost, while the mechanical parking brake acts on the front drive shaft.

Bucket action is fully hydraulic. Fulcrum pads on the boom arms behind the bucket provide powerful leverage while digging, and a 40° tilt-back allows a full load to be carried without spillage, close to ground level.

Maximum dumping height of 10ft. is reached in 8½ seconds. At 7ft. dumping height, the reach is 4ft. 9in. from the front of the tyre. Optional extras include cab, buckets for rock and for lightweight materials, bucket teeth, bulldozer and a shock absorber to give added protection to the hydraulic system.

ATLAS COPCO POWER-PACK UNIT

For the small workshop or foundry, Atlas Copco (Great Britain), Ltd., Maylands Avenue, Hemel Hempstead, Herts., have designed a high capacity air compressor "power-pack" unit which weighs only 1,050lb. It is offered complete with a flange-mounted electric motor.

The compressor, the TT6, is a two-stage, single acting machine with an intercooler built for a normal working pressure of 100 p.s.i. and with a free air delivery of 140 c.f.m. With the motor, it is mounted on bonded rubber feet for placing on concrete floors. The design is based on that of the company's VT range of portable compressors.

Trade Section

LAND-ROVER MOUNTED POWER VANE COMPRESSOR

A LAND ROVER mounted version of the 125-RO-2 Power Vane Compressor has been announced by the Consolidated Pneumatic Tool Co., Ltd., 232 Dawes Road, London, S.W.6.

The compressor, which is a standard two stage, sliding vane model delivering 120 c.f.m. at 100 p.s.i., is mounted centrally along the length of the body of the 109in. Land-Rover, space being available for several tools. A louvred canopy has been used to enclose the body, the spare wheel being carried on the bonnet. For this duty the vehicle has been fitted with special rear springs and shock absorbers.



Land-Rover mounting for C.P. compressor

The Rover diesel is a four stroke, four cylinder overhead valve engine of two litres capacity which develops 51.2 b.h.p. at 3,500 r.p.m. and 44.2 b.h.p. at 2,700 r.p.m. Drive from the engine is taken through the gearbox to the centre power-take-off and thence by an outrigger extension shaft to a multiple vee rope pulley. This pulley connects by a 1.125:1 reduction drive to a pulley mounted on an extension shaft of the compressor. The compressor is driven with the engine in third gear at 2,700 r.p.m., the take-off shaft rotating at 1,960 r.p.m. and the compressor shaft at 1,740 r.p.m.

Automatic regulation is fitted to the compressor, this being connected to the engine governor by a Bowden cable. An instrument panel is fitted to show discharge pressure, interstage pressure, compressor pump inlet oil pressure and discharge temperature. The receiver is fitted with two ¾in. take-off cocks.

The wheel base of the Land-Rover is 109in., track being 51½in. Ground clearance is 9¾in. and the overall length and width are 175in. and 64in. respectively. The total weight, including 300lb. of tools and crew of three is 5,900lb.

LIFT TRUCK FOR HANDLING BUILDING BLOCKS

A MARK II version of the Mobilift truck for handling building blocks has been developed by MultiBloc Welding Industries, Ltd., Blackswarth Road, Bristol, 5.

While retaining many of the features of the standard model, such as hydraulic transmission, the new version incorporates a hydraulic grab and higher lift to enable blocks to be stacked 11 high in the yard and five high on the lorries. The grab ensures a positive grip on two rows of 12in. by 4in. blocks and is preset so that even "green" blocks can be handled without breakages.

The turn round time for machine is said to be 30 per cent. faster, and other new features include a larger, more protected cab, three-cylinder diesel engine, non-slip toothed belt drive to the pumps and stronger welded steel beams.

The new Mobilift is now being exhibited at the Public Works Exhibition, along with another new machine—a one man operated, automatic Multibloc with an output of 2,160 17in. by 8in. by 4in. blocks an hour. This machine is hydraulically controlled by the operator who sits on the side and travels with it, blocks being produced on the floor as with the standard Multibloc. Fitments include a large capacity hopper, automatic feeding to the mould, hydraulic tamping, high speed vibration and semi-automatic two-wheel traction.

Blocks from concrete, breeze and foam slag aggregates may be made by the machine, for which a variety of moulds are available.

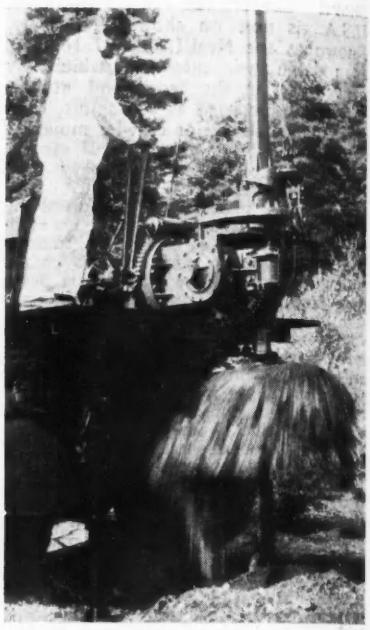


Mobilift, Mark II, block carrier

ROTARY TABLE MOUNTED EARTH BORER

PRODUCTION of a new rotary table mounted earth borer, suitable for use in conjunction with the short wheel base Ford Thames Trader 4 x 4 unit, has been announced by Cheshire Engineering Co., Ltd., P.O. Box No. 3, Yorktown Works, Camberley, Surrey.

With this new mounting, the manufacturers state it is possible to obtain rapid spotting of the auger on piling construction, thereby minimising the vehicle movement.



The truck-mounted borer

A similar installation recenty purchased by the G.P.O. is equipped with power hoist for erecting telegraph poles in addition to the new rotary table. This enables holes to be drilled and poles set along roadways without the necessity of shunting the carrying vehicle across the highway.

TOURNATRACTOR WITH HYDRAULICALLY OPERATED BLADE

A new Model C Tournatractor, with hydraulically operated attachments as a companion unit to the current C Tournatractor, with electrical controls, has been announced by LeTourneau-Westinghouse Co., Peoria, Illinois, U.S.A.

The new machine utilises a high-pressure hydraulic system of 5,000 p.s.i.; instead of the usual vane or gear type, it features a direct drive, Dynex piston pump. Another innovation is the use of two slide valves in the control sysem, as opposed to the spool or poppet valve.

The tractor is powered by a new G.M. 6V-71 engine, producing 218 h.p. The transmission is the L.W. power-shift type, air actuated with torque converter, four speeds forward, and a top speed of 18.5 m.p.h. Another feature is the integral, 1,400 r.p.m., power take off, for use with the double-drum power-control unit in operation of towed equipment.

The installation of the new engine permitted re-designing of the hood and cowling in the L.W. "new look." The tractor was shortened 18in. to an over-all length of 13ft. 6in., without the blade. The over-all width is 10ft 6in.

Also announced by the manufacturers is a new dirt handling C Blade for use with both Model C Tournatractors. This blade is 13ft. long, 3ft. 9in. high, and has a maximum pitch adjustment of 12 degrees. The blade weighs approximately 5,000lb.

Trade Section

CRAWLER-MOUNTED DRILL RIG FOR ONE MAN OPERATION

A CRAWLER-MOUNTED drill rig which, with a towed air compressor, forms a self-propelled unit capable of being operated by one man, is the latest product of the Holman Group, Camborne, Cornwall. Called the Holtrac, it carries an SL.160 heavy drifter.

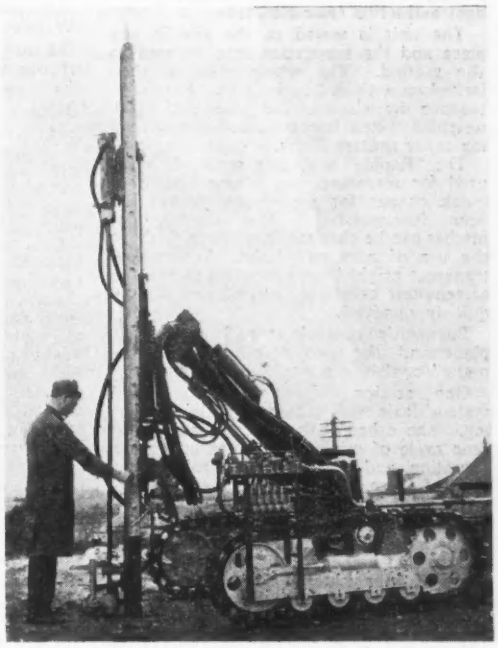
The power unit, air-operated through an eight-plate Bristol tractor clutch is made up of two Holman 5R Rotomotors, each of 7½-h.p. capacity. Maximum track oscillation over all types of ground by means of an articulated action system, ensures stability under adverse site conditions.

All hydraulic and pneumatic controls for the carriage are concentrated on one panel, while dual control for the drifter and the feed motor is provided at the slides.

Boom movement and feed positioning are finger-tip controlled and permit pattern drilling at almost any angle. The hydraulic movements include elevating, lowering and slewing of the boom, and dumping, swinging and crowding of the drill carriage. The reach is such that breast holes 8ft. 9in. up from ground level and spaced 7ft. 6in. apart can be drilled from one setting.

A dead-man control automatically returns the control levers to neutral and applies powerful air-brakes, when released, and a pedal-operated air valve which can only be operated from the driving seat, is fitted as an additional safety feature.

For dry drilling, dust suppression is achieved with a dust eductor unit which blows dust and chippings to a safe distance.



Holtrac crawler-mounted drill rig

THORNYCROFT 4 x 4 DUMP TRUCK CHASSIS

A MEDIUM load 4 x 4 dump truck chassis has been added to the range of Thornycroft vehicles made by Transport Equipment (Thornycroft), Ltd., Basingstoke, Hants.

It is of compact design, with a 10ft. wheelbase and a turning circle of 49ft. Power is provided by a six-cylinder oil engine with a maximum output rating of 170-b.h.p. at 2,200 r.p.m. and a maximum torque of 450lb. ft. at 1,200 r.p.m.

Welding is employed extensively in the construction of the chassis frame and the side members are 15in. by 4in. rolled-steel channels. The I-section cross-members are horizontally gusseted to the side members, wth the leading cross-member bolted in position to facilitate engine removal.

Other features of the vehicle are a 16in. single dry plate clutch, separately mounted combined main and distribution gearbox, five forward speeds, independent engagement of front wheel drive, a power take-off for full engine power, heavy duty double reduction rear axle, spiral bevel centre and hub gearing, driven front axle, air pressure brakes on all wheels with two reservoirs, and 12.00-24in. 16-ply tyres, twin rear.

The model Edbro 12DN dumper hoist is of the twin underbody slant ram type with 12-14 tons capacity for use with dump bodies up to 11ft. mean length with scowgate angles up to 30°. The triple extension double acting rams give a 70° tip angle for use with a scow end body. Power lowering in the last two ram stages ensures rapid return of the body. High speed tipping is effected in 8-9 seconds and the complete tipping cycle in 16-18 seconds. The maximum system pressure is 1,500 p.s.i.

The machine has been designed with a view to easy maintenance. Engine, clutch and gearbox are removable with little disturbance of other parts and the power steering unit, batteries, engine oil and air cleaners, and the front end structure are all easily removed.

ARTICULATED DUMP TRUCK WITH 7½ CU. YD. CAPACITY

A DUMP TRUCK with a capacity of 7½ cu. yd. and a payload of 25,000lb. is now being produced by Northfield Industrial Fabrications, Ltd., Langley Mill Works, Ossett, Yorks.

It is designed for fast operation, having articulated, power-operated steering, which allows a turning circle of 18ft. 9in., and double-acting side rams, which tip the 8ft. x 10ft. hopper to 78 degrees in seven seconds. Return of the hopper to the carrying position takes about five seconds and can be effected while the machine is accelerating.

The dumper is powered by a Ford 6D engine, which develops 96 b.h.p., or a Perkins S6(1), developing 115 b.h.p. A Brockhouse torque converter is incorporated, providing automatic variable gear ratio between 6.54 and 1 to 1 in two forward speeds, and a reverse drive ratio of between 6.54 and 2 to 1. The final drive includes disc type transmission parking brakes, fully enclosed in oil-tight compartments, which are accessible through panels in the side of the drive housing at the rear of each driving wheel. With the drive and parking brakes operating on the front wheels, the makers claim that it is virtually impossible to tip the machine over an edge while dumping.



Northfield F7 dumper

Final drive is through a unit incorporating fully floating axles. All moving parts are of Fordson Major Industrial manufacture. Housed in the final drive unit, the hydraulic pump is driven from the power take-off of the torque converter and is "live" at all times. The oil used for final drive lubrication, after filtering through the pump, also feeds the hydraulic system, and is the same grade as is used in the engine.

NYLON PROTECTION FOR HOUSE-BUILDING

A nylon airhouse—a 50,000 cu. ft. "igloo" with no visible means of support is to be used for the first time in Britain to protect a permanent house while it is being built at Hampton, Middlesex. It will enable work to continue in bad weather.

Hampton House Developments, Ltd., are to use the airhouse which, manufactured by the Gourock Ropework Co., Ltd., measures 70ft. by 40ft. by 20ft. and consists of a lightweight but tough skin of waterproof coated nylon fabric. It is kept up solely by a constant supply of low-pressure air supplied by fans.

Trade Section

FREDERICK PARKER EXHIBITS AT OLYMPIA

A HIGH-SPEED scrubber-mill which not only scrubs the material but mills up any clay in it, is among the exhibits of Frederick Parker, Ltd., Leicester, at the Public Works Exhibition. Known as the Cascade, the complete mobile unit is a composition of three standard units—the scrubber-mill, the Rapide vibrating screen and the Sandowheel sand dewaterer—each of which can be used or mounted separately.

The milling up of the clay is caused by the depth and weight of the material in the washer and the impact caused by the higher speed of the cylinder. Construction of the mill is such that the cylinder is always heavily loaded regardless of the rate of feed. The period of time which sand, gravel or stone spends in the mill is determined by the feed rate.

For example, at a feed of 30 tons an hour, the material will be scrubbed and milled for about five minutes, but at 60 tons an hour it will be about half this time. So where dirty material is encountered it can be cleaned by slowing down the feed rate, while with virtually clean deposits the rate can be as high as 80 tons an hour.

To obtain more than one grade of sand, another Sandowheel is put alongside the machine to recover "fines," which may be deliberately lost from the first Sandowheel. The four deck Rapide screen fitted—48in. x 96in.—will give sand, three grades of gravel and rejects. These may be stockpiled by separate conveyors or, alternatively, the whole unit may be mounted over bins into which the material can fall by gravity.

Asphalt Plant

Another new Parker machine on show is the Starmix 37 mobile asphalt plant, which is driven by electric motors but is designed for quick changeover to diesel engine or single electric motor. Its output varies from 55 to 80 tons an hour.

The dryer is a self-contained unit with its own feed hopper, feeder, dust collection system and power unit. It can be transported with little dismantling and is put back to work by simply wheeling into position. The mixing unit, too, is self-contained with a jacking system and a dust extraction system built in.

The unit is towed to the site in one piece and the supporting legs lowered to the ground. The whole plant is then jacked up with hydraulic jacks. For maintenance the whole of the mixer and batch weighing system become accessible by raising roller shutter doors.

The "Rapide" vibratory screen is again used for screening, but a new system of quick change for the screen meshes has been incorporated. This means that meshes can be changed in minutes, without the use of nuts and bolts. Where low transport height is an important factor, the screen unit complete with chutes can be quickly removed.

Pneumatic controls are fitted to the plant and the two stages of "Parkermatic" control are available as extras.

One section of this "Parkermatic" system deals with automatic batch weighing. The other deals with the automatic time cycle of mixing and gives automatic operation and time lock control. With both of these sections a completely automatic plant is obtained. Batch capacity of the plant is about one ton.

The mixer is equipped with a two speed gear so that higher speeds can be used for mixes of finer material such as sand carpet. Wearing parts of the mixer are of "Diamite" which is a refined white cast iron alloyed to give hardness and resistance to abrasion.

National Building Studies Research Paper No. 31—Studies on Bridgedeck Systems —II. Bending Moments in a Plate-and-Girder System, has been published for the Building Research Station by H.M. Stationery Office, price 4s.

THWAITES TWO-WAY DISCHARGE DUMPER

A NEW two-way discharge dumper made by Thwaites Engineering Co., Ltd., Cubbington, Leamington Spa, provides hydraulically controlled discharge of 27 cu. ft. of concrete to either side of the dumper while travelling under load.

Discharge of material is controlled by a single lever movement, mounted on the steeriig column. Operation of the skip is by twin hydraulic rams, the operator being able to change direction of discharge as required without transfer of pins and without leaving his seat.

Discharge is 1ft. 3in. above ground level with the edge of the skip within the driver's view on the near side. Accurate control of rate of discharge to avoid "heaping" can be obtained, or complete discharge can be effected in 7 seconds. Loading height of the skip is 48in. The machine will be marketed at £720.



Thwaites two-way discharge dumper

CLUTCH FACING FOR HEAVY DUTIES

New Company for Manufacture of "Sinterlink"

THE Morgan Crucible Co., Ltd., and British Belting and Asbestos, Ltd., have registered a new company named Morgan-Mintex, Ltd. This new company will manufacture sintered friction materials, which will be sold under the registered trade mark "Sinterlink." These materials have been developed by The Morgan Crucible Co., Ltd., and are produced at their factory in Wandsworth, London, S.W.18, where the new company will be located. Sales throughout the world will be handled by the Mintex Division of British Belting and Asbestos, Ltd., as sole concessionaires.

"Sinterlink" sintered friction materials will add to the existing range of friction materials offered by Mintex, which are mostly based on the combination of asbestos fibres with natural and synthetic resins: and together they will offer a considerable variety of physical properties, sizes and shapes. "Sinterlink" has distinctive qualities which are complementary to those of "Mintex" materials, and are of especial value in automatic transmissions and heavy earth-moving equipment where its physical and mechanical properties and better heat dissipation characteristic permit higher unit loadings resulting in more compact designs.

Morgan Crucible Group

Morgan Crucible has been at Battersea for over 100 years, and now has 10 factories in Britain and 12 subsidiaries overseas, with a total payroll of over 7,000. The Group manufactures a wide range of carbon products, refractories, resistors and electric heating elements, etc., as well as the plumbago crucibles, furnaces and accessories for which Morgans first became famous. Mr. Allen L. Stock, chairman, announced in July that the reorganisation of the Group, which has been proceeding steadily since the war, will be completed next April, when The Morgan Crucible Co., Ltd., will become a financial holding company.

British Belting and Asbestos, Ltd., has been established for over 80 years and has its main factory at Cleckheaton in Yorkshire. Including subsidiaries, it has a total payroll of 3,600. As well as "Mintex" friction materials and industrial plastics, the Company manufactures a wide range of asbestos textile products and industrial beltings, notably fire-resistant coal conveyor beltings. In addition to subsidiary manufacturing units at home and in a number of major overseas countries, the Company has distribution depots in principal towns and cities in the U.K. and a world wide organisation of marketing subsidiaries and agents.

Directors of Morgan-Mintex, Ltd., are H. I. Matthey, chairman; J. H. Dawson, managing director; R. A. Barber; P. H. A. Mount; and I. Weston Smith.

NEW HOLMAN ROAD RIPPER

A new road ripper for heavy duty demolition, the SS.80, has been introduced by The Holman Group, Camborne, Cornwall. It is supplied with either a spring or a latch type retainer and has a new type of built-in lubricator which meters the correct amount of oil and gives shift-long lubrication with a single filling.

The tool can quickly be adapted for pile driving by the substitution of the normal front head by a special head to which side plates are attached and in which a driver pad is fitted. When so converted, circular wood piling up to 6in. diameter, wood sheet piling up to 3in. thick and many forms of steel piling can be driven.

Trade Section

VILLIERS INTRODUCE TIPPING TRAILER

A FRAMELESS trailer, adapted for tipping and incorporating an American principle, is being marketed in Britain by John Villiers and Co., Ltd., 69 Knightsbridge, London, S.W.1.

The conventional heavy trailer frame has been eliminated and the hydraulic ram is mounted on a special plate above the tractor's fifth wheel. The ram picks up at the top of the front end of the body above the centre of gravity of the load. Hinged through the same centres at the base of the ram are two radius arms which connect half-way along the underside of the floor of the body. Special equipment is incorporated to enable the brakes to be set selectively on either the tractor or the trailer during tipping.

This arrangement allows the entire trailer to be raised during tipping; the rear wheels of the trailer roll forward when the tractor brakes are set and the trailer axle is used as a tipping hinge. Normal movement of the fifth wheel is blocked off giving a firm connection between the tractor and the trailer, and ensuring stability even when tipping with a high degree of articulation. Stability is further increased since the wheel base shortens as the trailer is raised and the point of lift remains above the centre of gravity. Stresses set up during tipping are absorbed so as to make full use of the designed strength of the prime mover.



Unloading the tipping trailer

Exceptional manoeuvrability is claimed for the trailer. Any wheel or set of wheels can be extricated from a rut by operating the ram, and by setting the appropriate brakes, the trailer wheels can be rolled forwards or the tractor wheels backwards.

The weight saved by the elimination of the heavy trailer frame is added to the effective payload, and combined with better distribution of weight on all axles, the trailer is able to haul the maximum load specified by law and the tractor manufacturers. Both initial capital outlay and running expenses, it is claimed, are less than for a comparable rigid tipper.

ROLLS-ROYCE MARK IV DIESEL ENGINES

The Oil Engine Division of Rolls-Royce, Ltd., Sentinel Works, Shrewsbury, have announced that the range of RR diesel engines has now been extended to include four, six and eight-cylinder models, fitted with individual four-valve cylinder heads and improved pistons.

In this Mark IV range, seven to 12½ per cent. increase in power, coupled with up to seven per cent. decrease in specific fuel consumption is claimed over the original C range engines, with no resultant increase in overall dimensions.

Increased power has been obtained by improving the gas flow to and from the combustion chamber by the use of four valves in each cylinder head, which also results in increased valve reliability at higher ratings. Fuel injectors of an improved design are housed under the valve rocker covers, with an external injector spill system to ensure that dilution of the lubricating oil does not occur.

The introduction of individual cylinder heads brings many advantages from a servicing viewpoint. The need for lifting tackle during fitting and removal operations is dispensed with, good joints between individual cylinder heads and their liners are more easily obtained than when one head seals two or more liners, and the smaller individual head joint gaskets are more easily stored and transported.

New type pistons are fitted to increase engine reliability and to reduce the tendency towards crankcase and cylinder liner erosion which occurs on high-powered diesel engines. They are manufactured from an improved material and the top compression ring groove is provided with a cast iron insert.

CATERPILLAR SHOW THEIR LARGEST WHEEL LOADER

THE Caterpillar Tractor Company's display at the current Public Works Exhibition includes a machine on show for the first time in this country—the 966A Traxcavator. Largest of the Caterpillar wheel loaders now in production in the United States, it is similar in overall design and configuration to the 922A and 944A which complete the range.

Power shift transmission and a high capacity hydraulic system are incorporated in the design, the lift arms, links and cylinders being well forward of the operator's compartment The power unit is a six-cylinder, 140-h.p., turbo-charged engine.

Standard bucket capacity is 2¾ cu. yd., but light material and quarry buckets and a 2¾ cu. yd. side dump bucket are also available.



Caterpillar 966A Traxcavator

CATERPILLAR TO MANUFACTURE IN FRANCE

Caterpillar Tractor Co. have announced the formation in France of a subsidiary company—Caterpillar France S.A. Mr. L. B. Neumiller, chairman of the board, and Mr. H. S. Eberhard, president, stated that this subsidiary will manufacture products beginning with the D4 tractor which will be followed by the 955 traxcavator. It is contemplated that acquisition of necessary facilities will be accomplished soon. The purpose of the new subsidiary is to strengthen the company's position abroad, particularly in the European common market.

Mr. W. J. Bornholdt, vice-president of the Caterpillar foreign trade group and formerly managing director of the company's British subsidiary, will head a group of Caterpillar employees who will prepare for the beginning of manufacturing activities in early 1961. Mr. Bornholdt has been appointed president of the new subsidiary.

Mr. W. W. Sellers, who had been quality control manager of the Glasgow factory for the last four years, already has moved to France to assume a prominent role in the French operation.

PILE UP THE PROFITS
WITH TRADER AND COUNTY

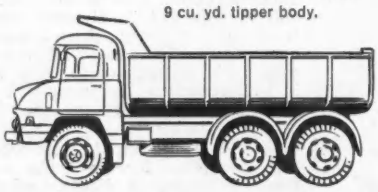
Tons-per-mile cost is what makes or mars your profit: with Trader and County, the tons-mile costs are down. Fully approved by Ford Motor Company Limited, the Trader County is available in a wide range of chassis lengths for both 6 x 2 and 6 x 4 . . . has proved itself after 18 months' use on the road for quality and performance.

182" wheelbase 6 x 2 with 21 ft. truck body.

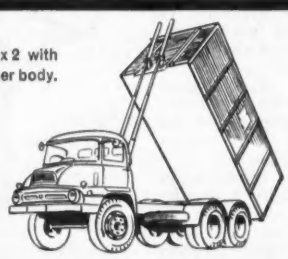


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132" wheelbase 6 x 4 with 9 cu. yd. tipper body.



160" wheelbase 6 x 2 with 26 cu. yd. Bulk tipper body.



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NUFFIELD UNIVERSAL THREE

3 cylinder, 2.55 litre B.M.C. diesel developing 42 b.h.p. Five-speed gearbox. Road speed 14 m.p.h.

NUFFIELD UNIVERSAL FOUR

4 cylinder, 3.4 litre B.M.C. diesel developing 56 b.h.p. Five-speed gearbox. Road speed 17.3 m.p.h.

Both models available with hydraulic power, belt pulley, independent power take-off, differential lock, vacuum brakes and other extras. Power steering is available on the 'Four' only.

TWELVE MONTHS' WARRANTY
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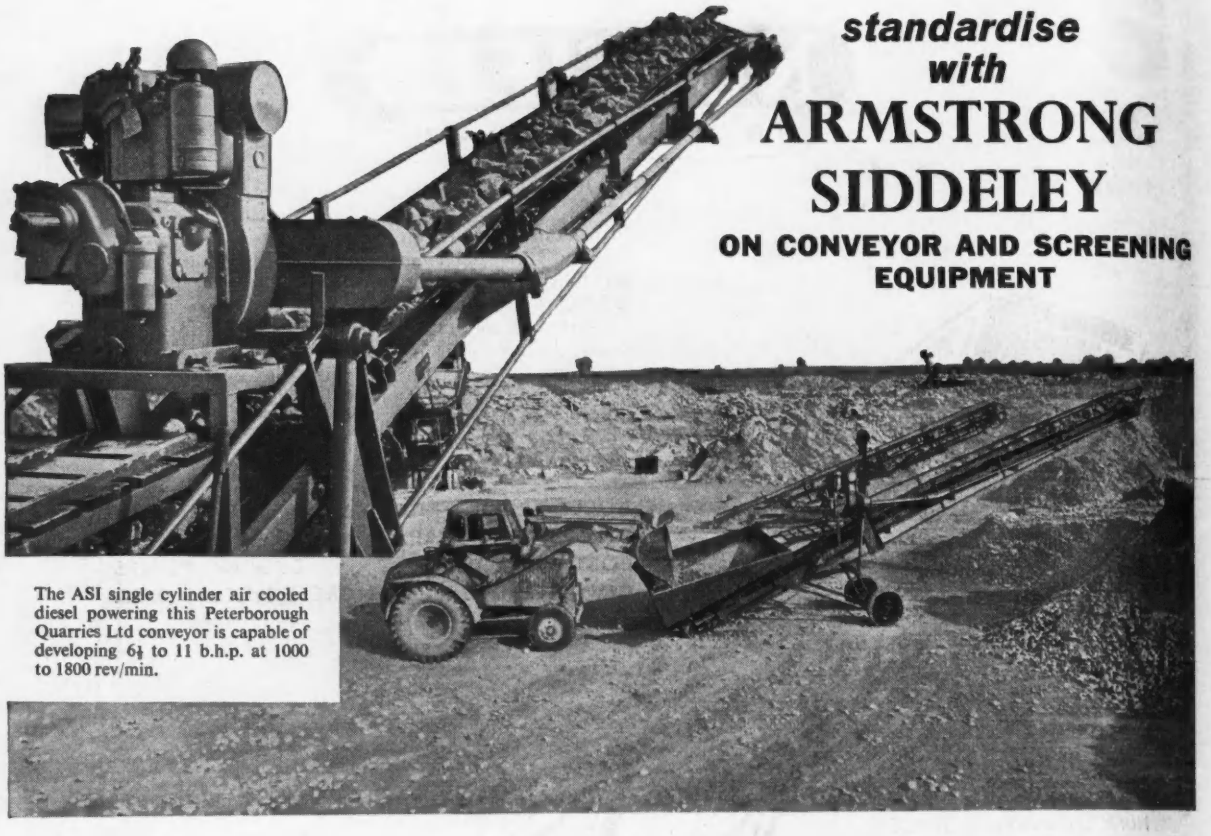
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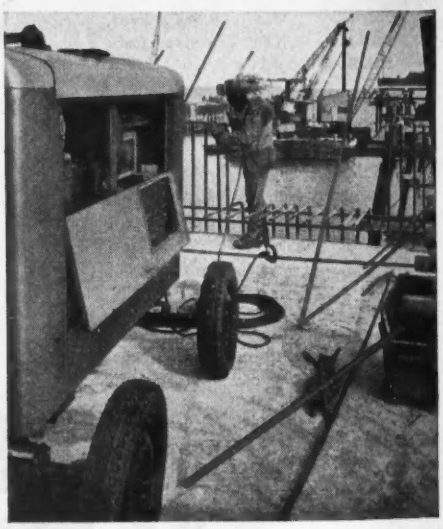
ON CONVEYOR AND SCREENING EQUIPMENT



The ASI single cylinder air cooled diesel powering this Peterborough Quarries Ltd conveyor is capable of developing 6½ to 11 b.h.p. at 1000 to 1800 rev/min.

This new type conveyor the A.R.D. Load Piler used by Peterborough Quarries Ltd., is powered by an Armstrong Siddeley ASI air cooled diesel. These engines have proved to be so efficient and economical, despite the fine-ground dust inevitably associated with the quarrying and crushing of limestone, that they are now being fitted to much of the equipment used by the firm, including six conveyors and two screening plants.

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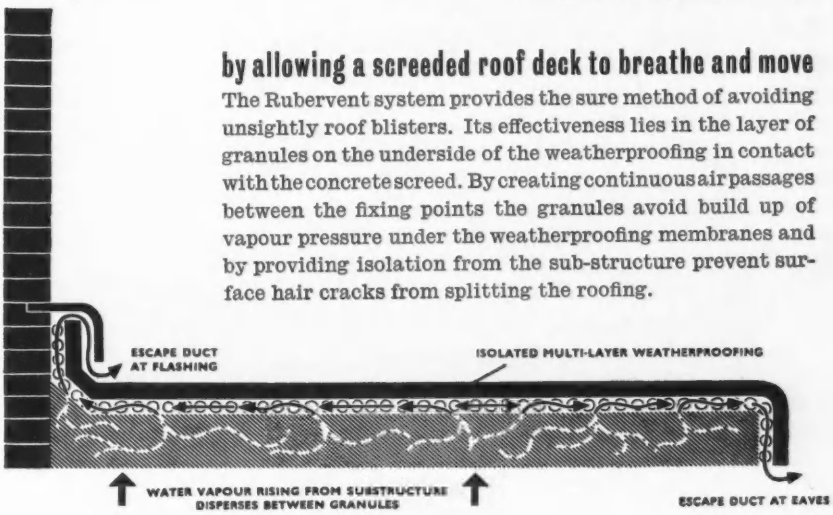


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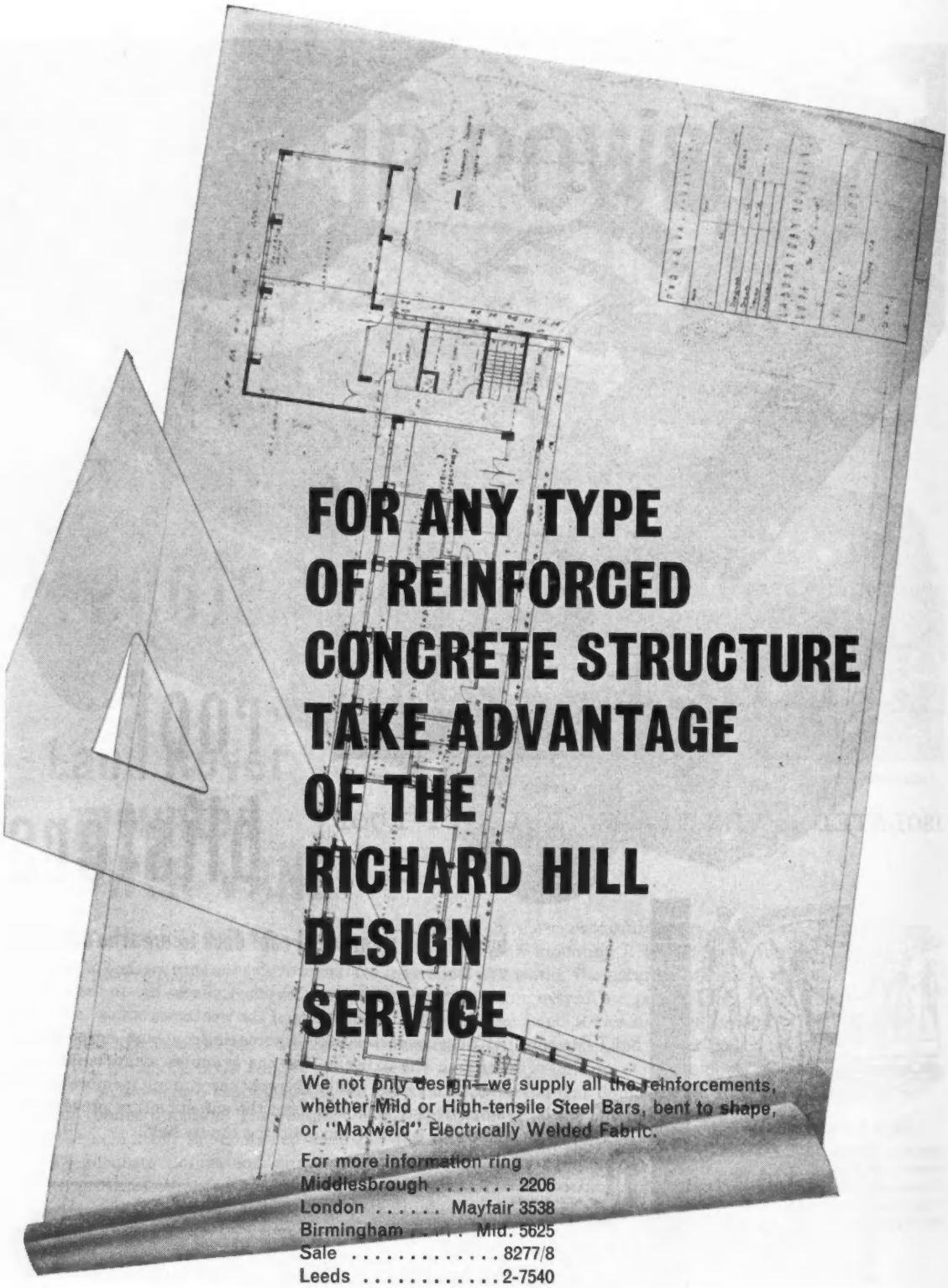


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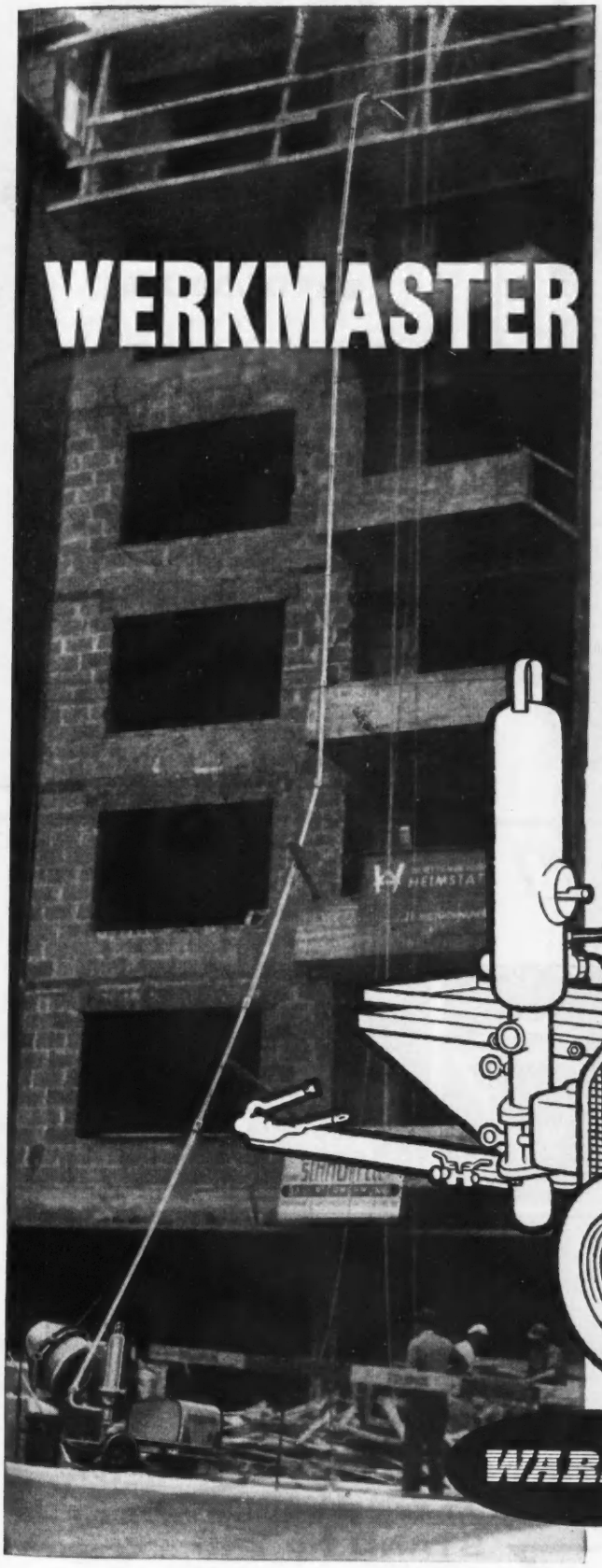
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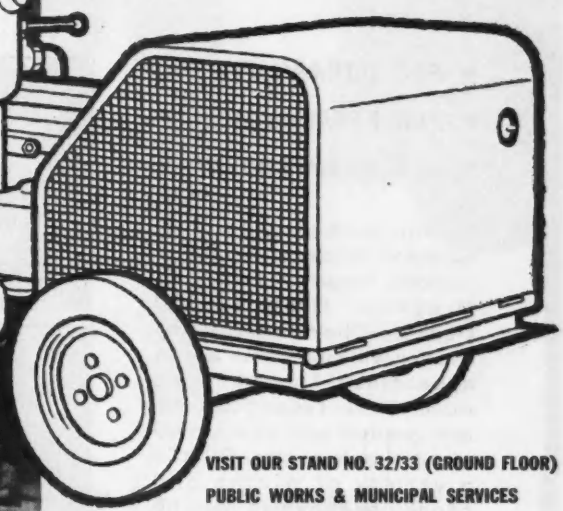


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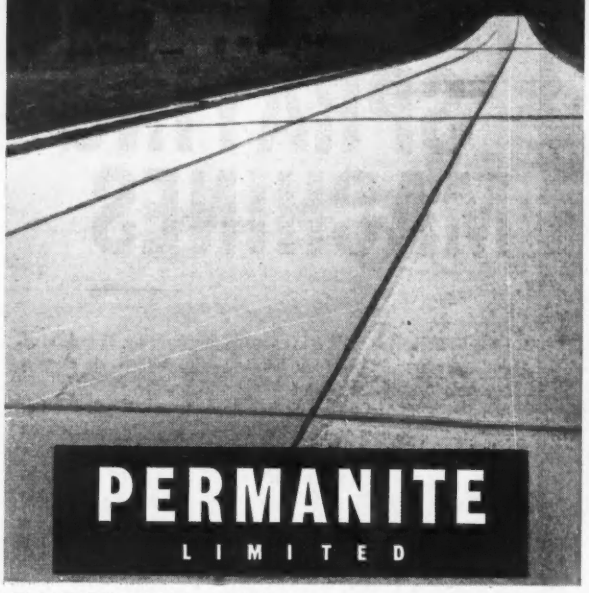
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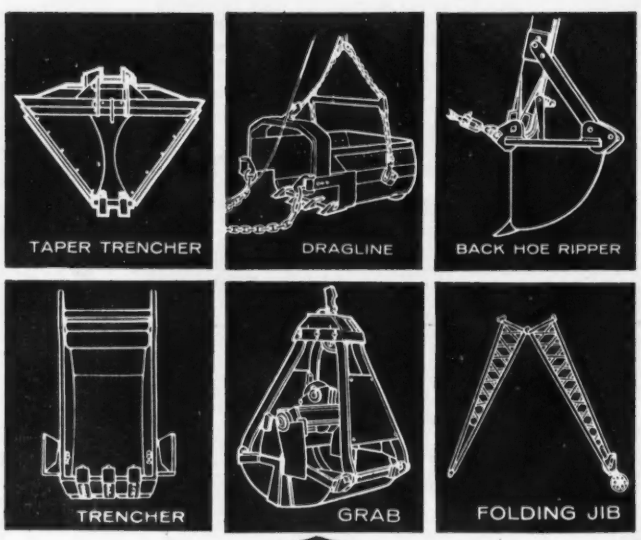
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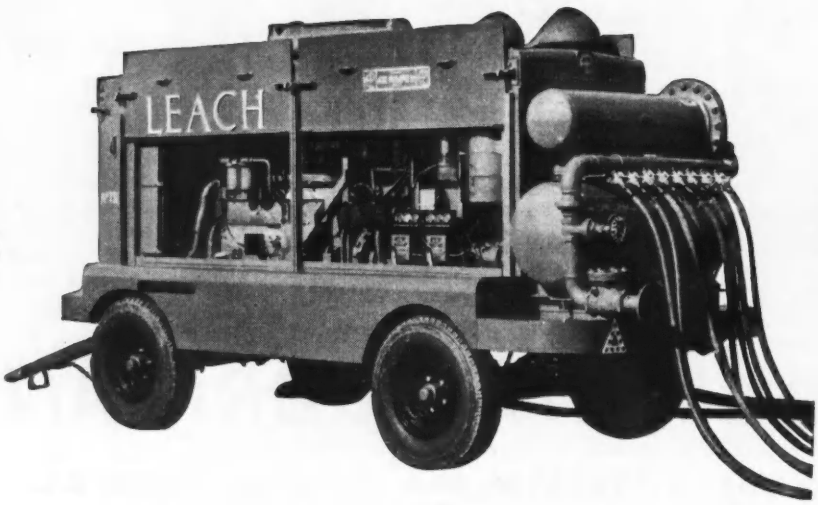
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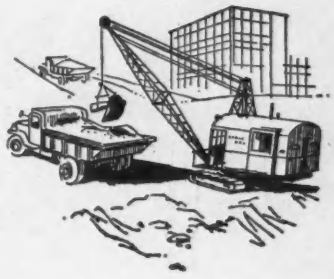


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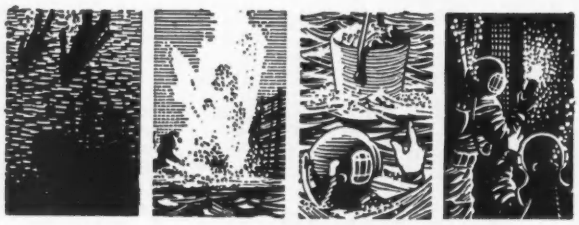
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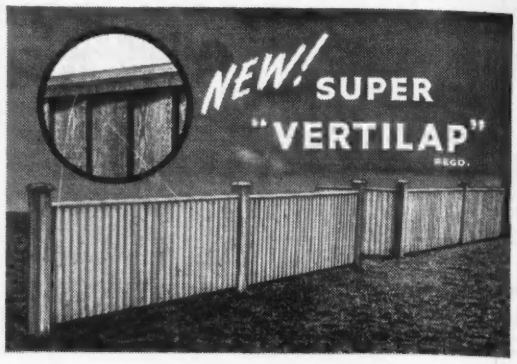


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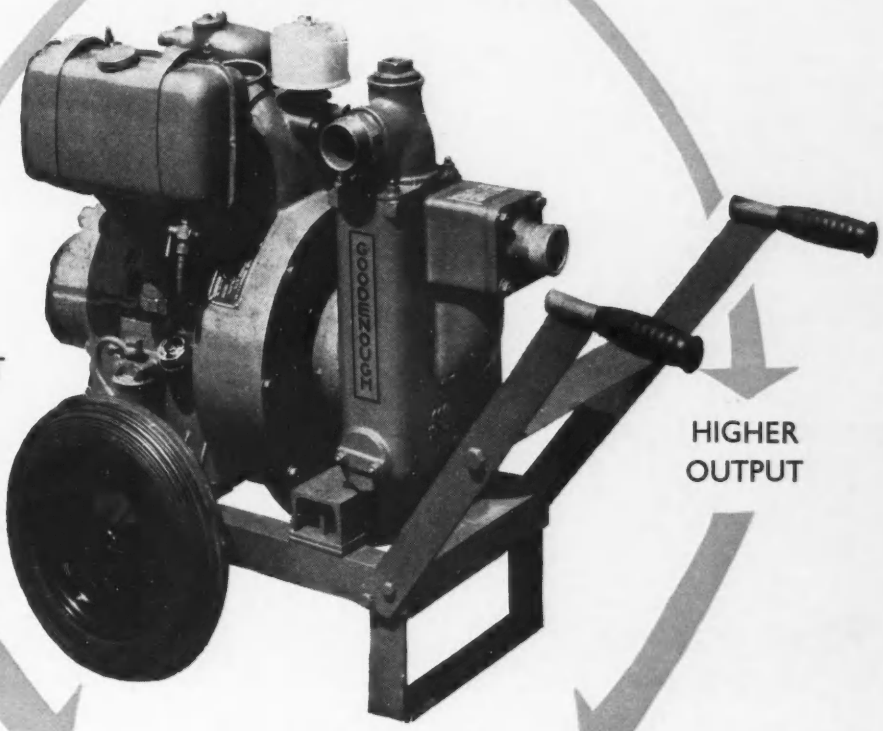
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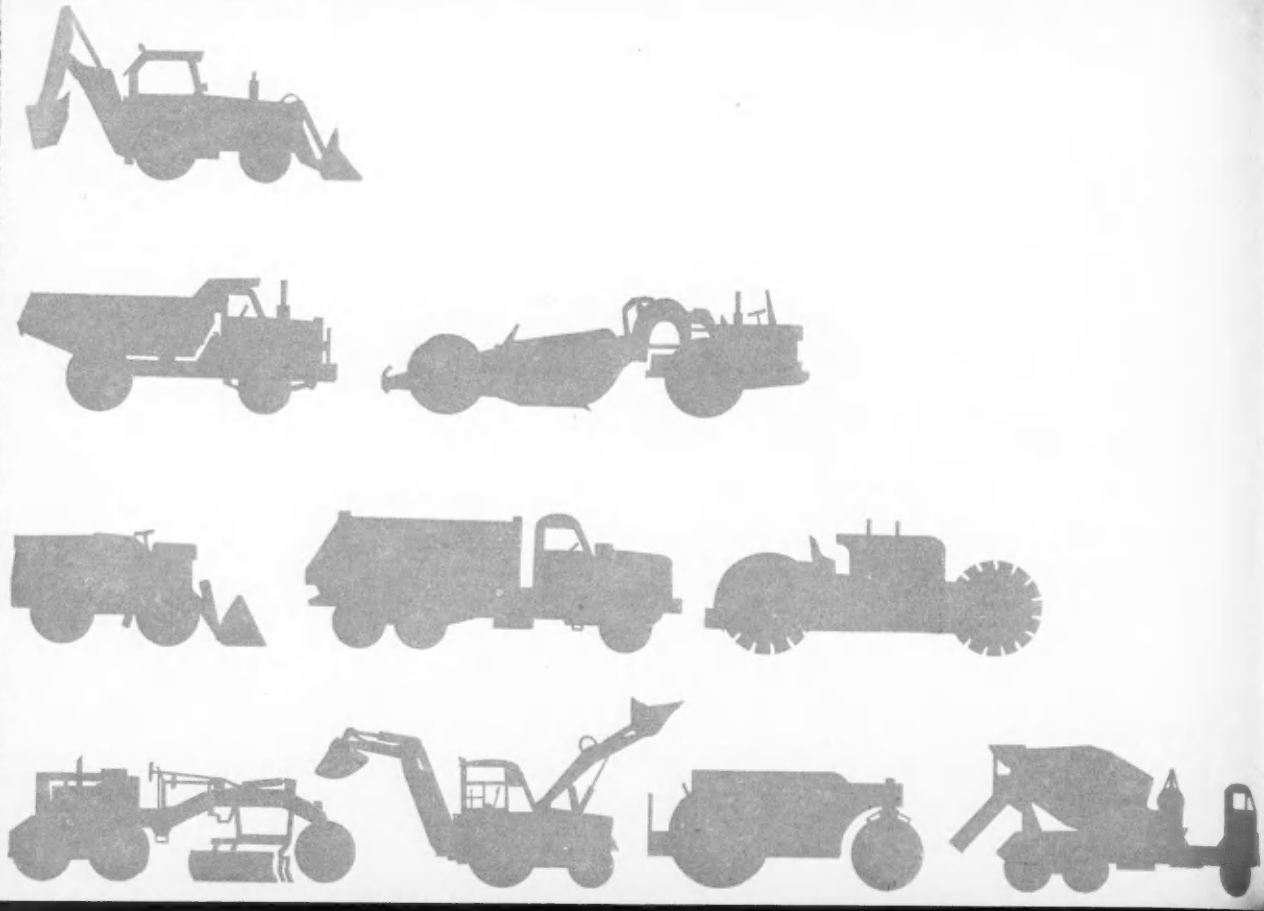
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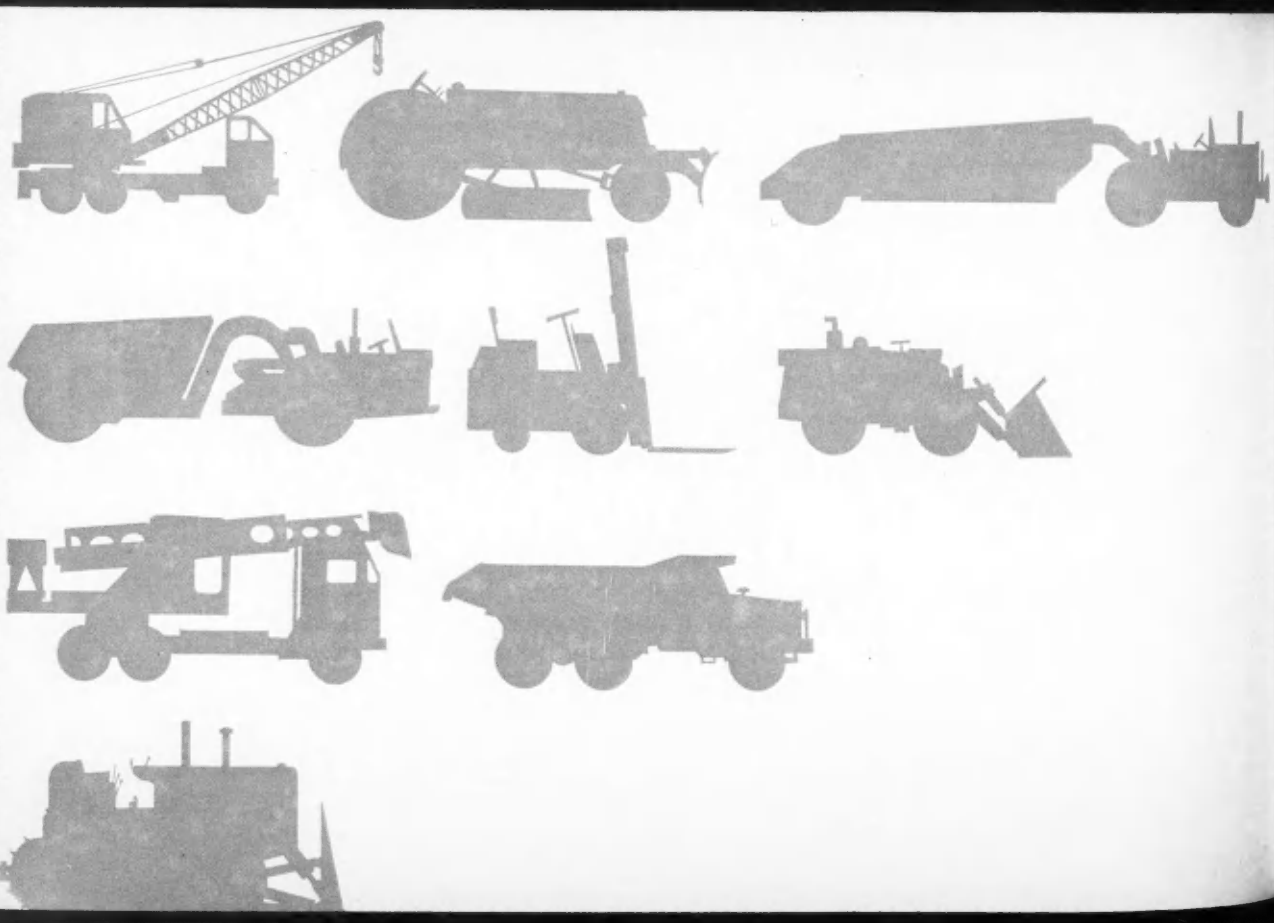
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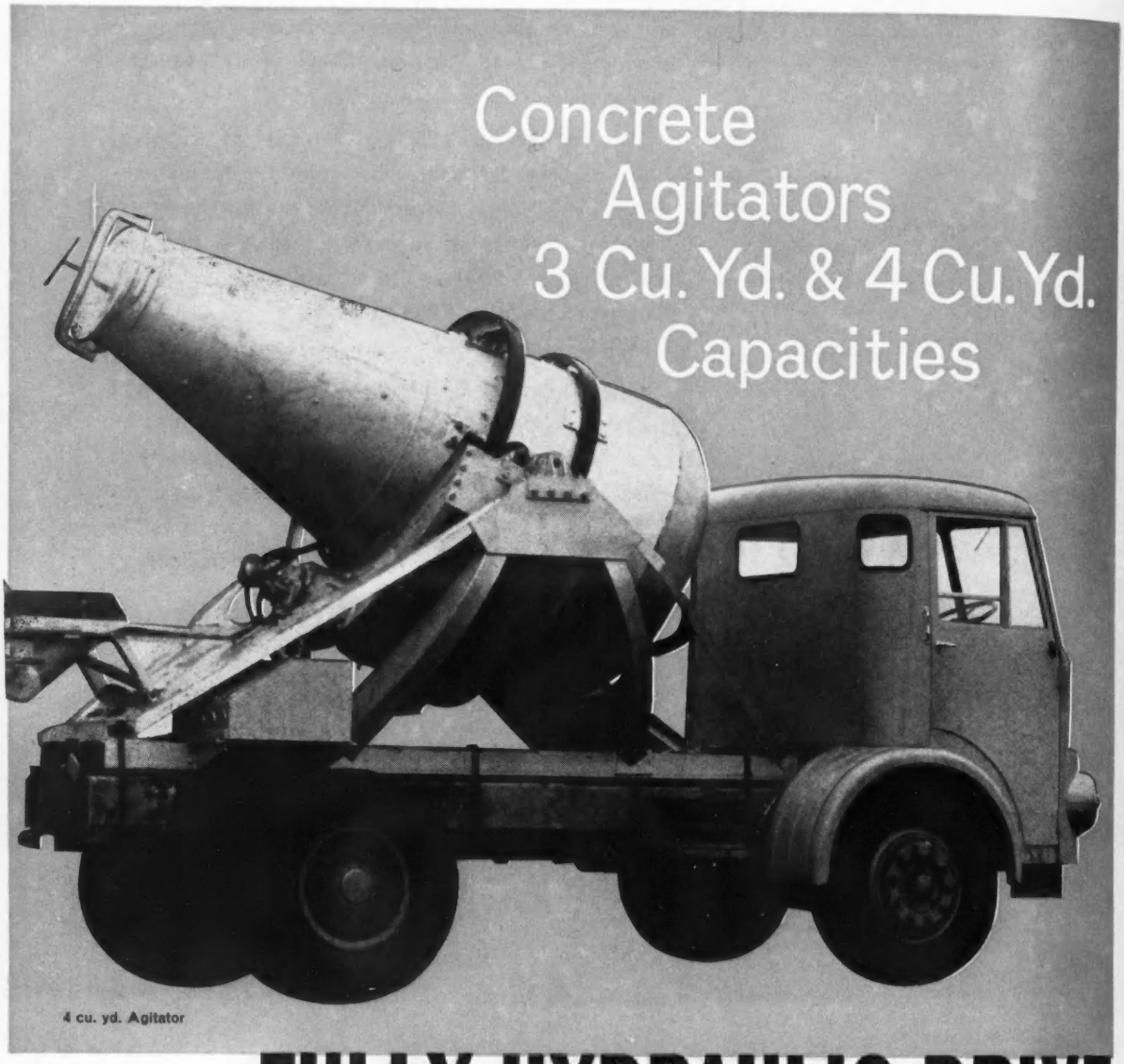
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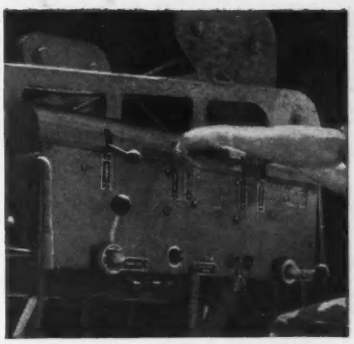
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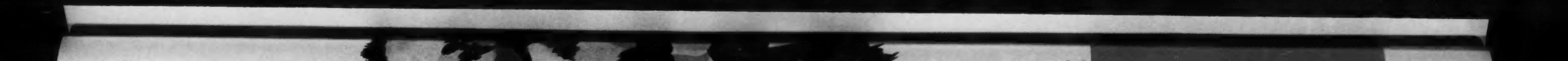
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(Continued from page 866)

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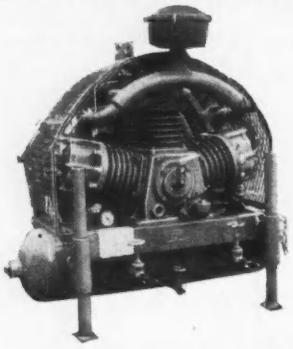
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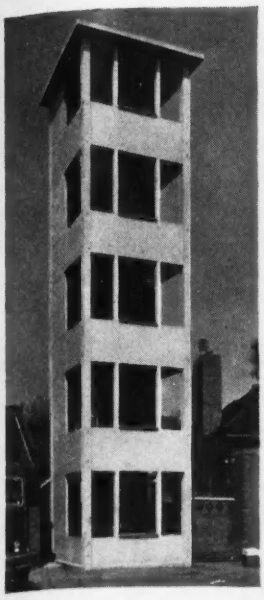
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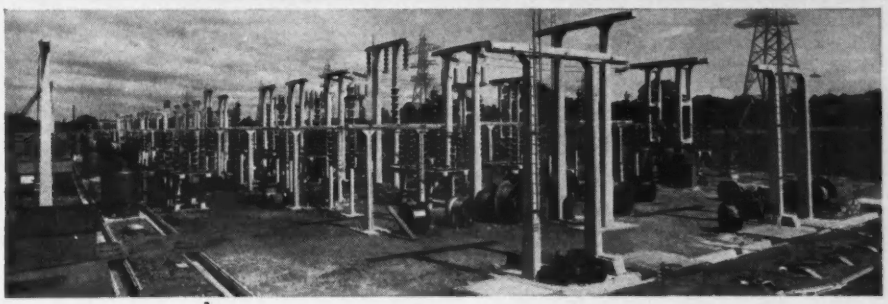
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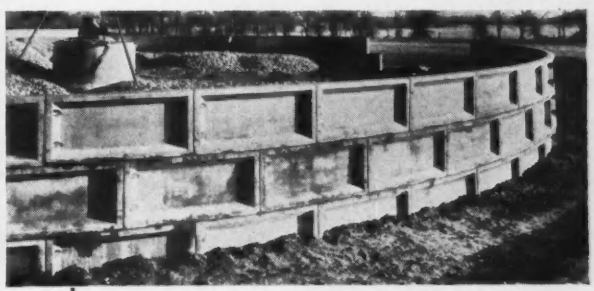
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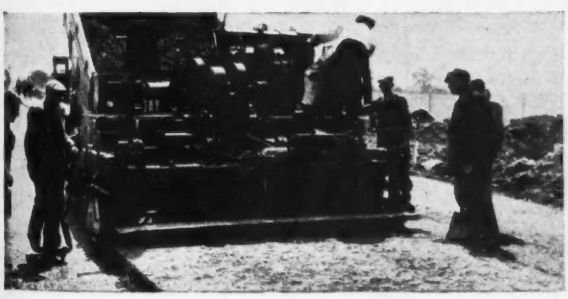
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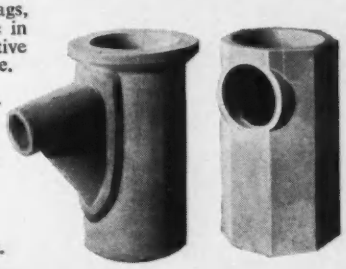
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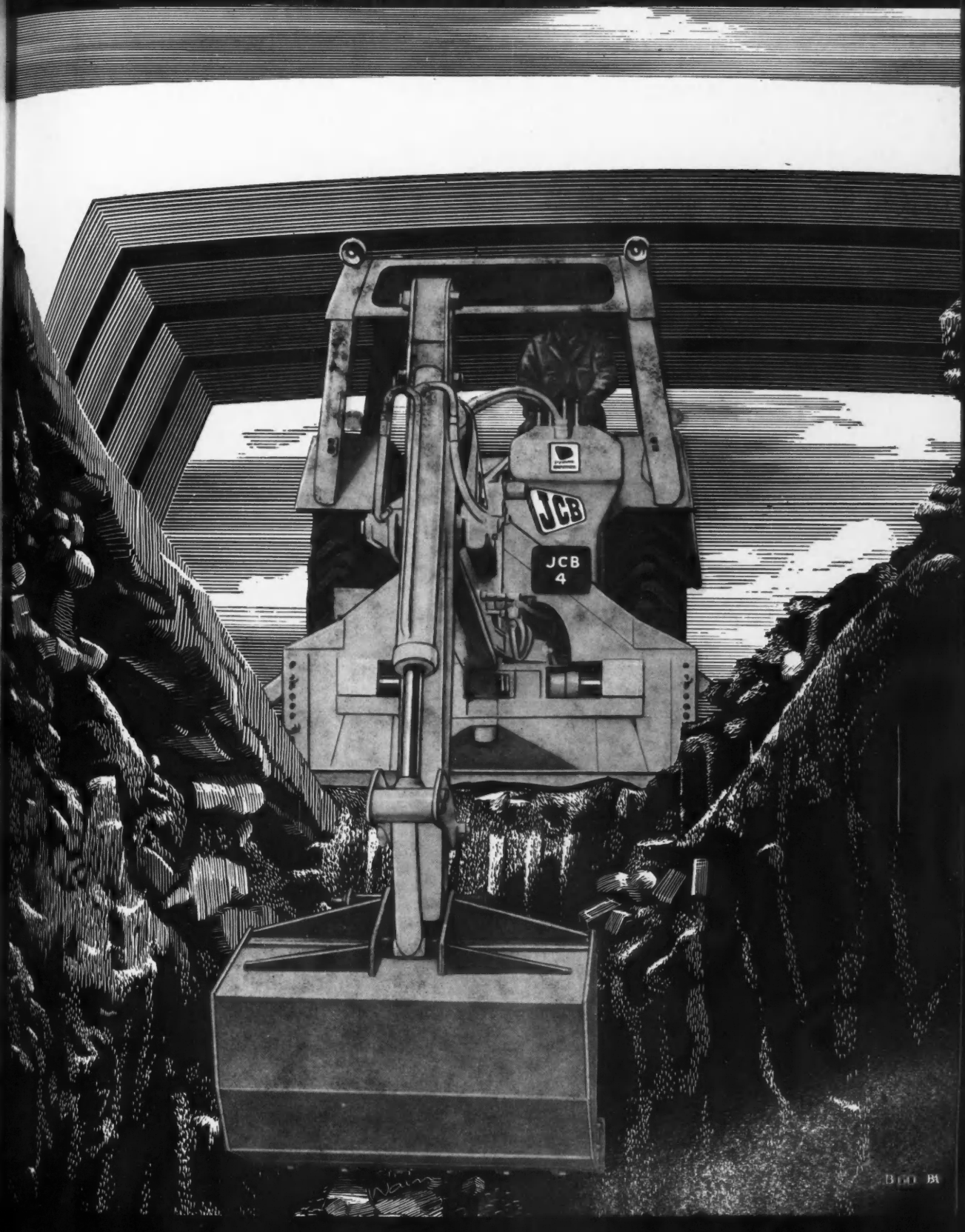
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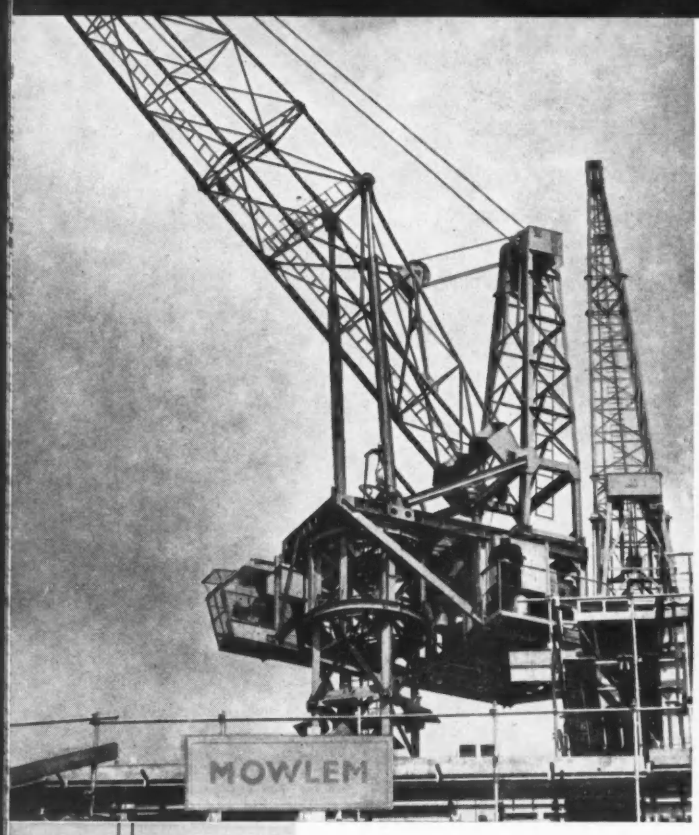
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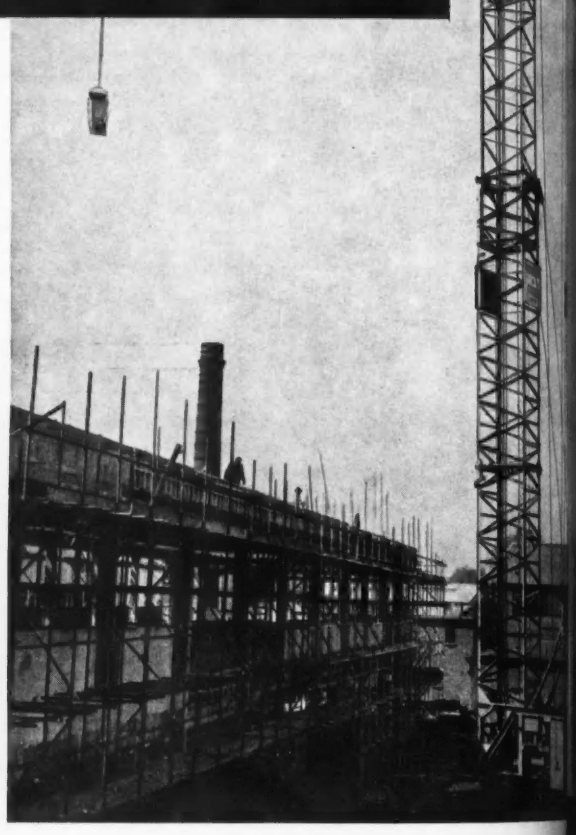
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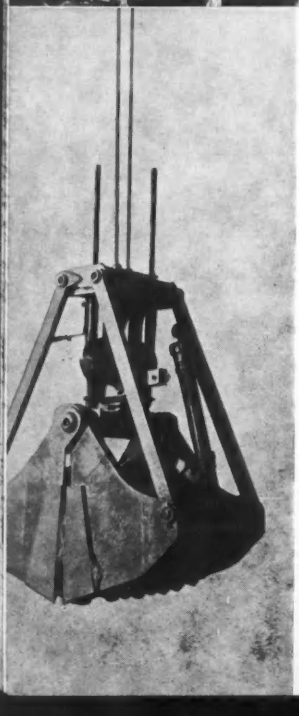
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- ★ Four operations controlled by two joy sticks with 3/4 speed steps per operation, forward and back.
- ★ Level luffing — 100 ft. per minute, horizontal speed.
- ★ Up to 500 ft. per minute hoist speed.

Model	Maximum Radius		Minimum Radius		
	Radius ft.	Lifting capacity cwt.	Radius ft. in.	Lifting capacity cwt.	Hoisting speed ft/min.
25HB/S	66	25	11 5	49	206
36HB/S	85	27	11 5	59	197
50HB/S	99	34	11 5	78	197

Telescopic Tower Cranes Models 14A/17 to 56A/72.

- ★ Erection and dismantling is faster than any crane of this size; completely from ground level.
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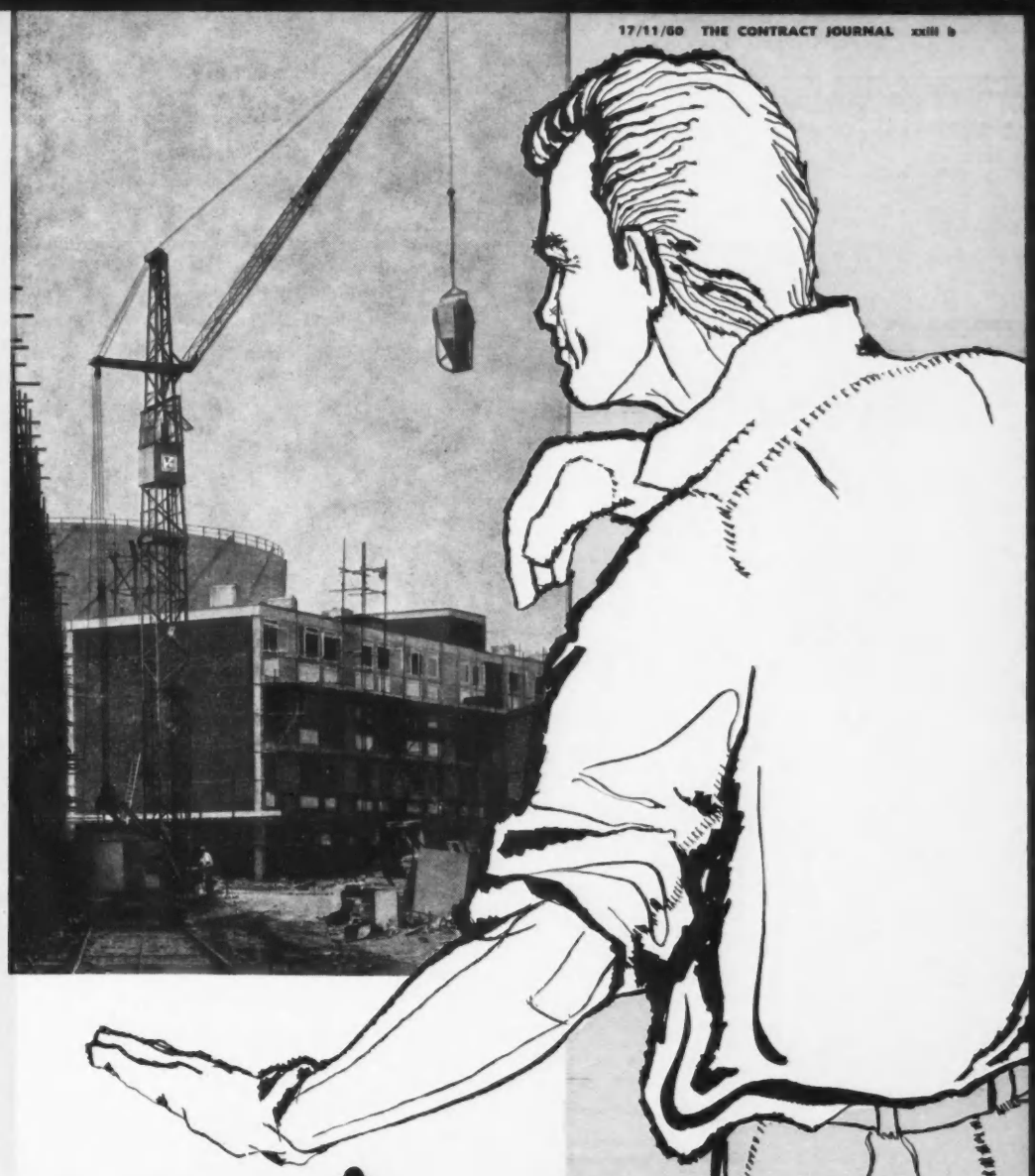
Model	Radius ft.	Liftg capacity cwt.	Height of pulley	Hoisting speed ft/min.	Slewing speed r.p.m.	Travelling speed ft/min.
14A/17	20–53	17–35	76–110	65/147	1·3	115
20A/25	20–59	22–47	83–122	65/164	1·2	115
25A/30	26–66	25–55	92–135	65/164	1·2	115
35A/45	32–82	27–59	116–168	79/184	1·0	130
45A/55	36–99	30–73	139–204	79/184	1·0	130
56A/72	39–108	34–79	158–232	79/213	0·8	130

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- ★ Can operate on pneumatic tyres or rails.
- ★ Four multi-speed step operations can be carried out simultaneously.

Model	Maximum Radius: Radius ft.	Lifting capacity cwt.	Hoisting speed ft./min.
6A	42' 6"	8¼	131
8A	49' 3"	8¼	131
11A/13	59' 0"	8¼	335
Model	**Minimum Radius: Radius ft.**	**Lifting capacity cwt.**	**Hoisting speed ft/min.**
6A	16' 3"	21½	131
8A	23' 0"	18½	131
11A/13	21' 3"	23	335



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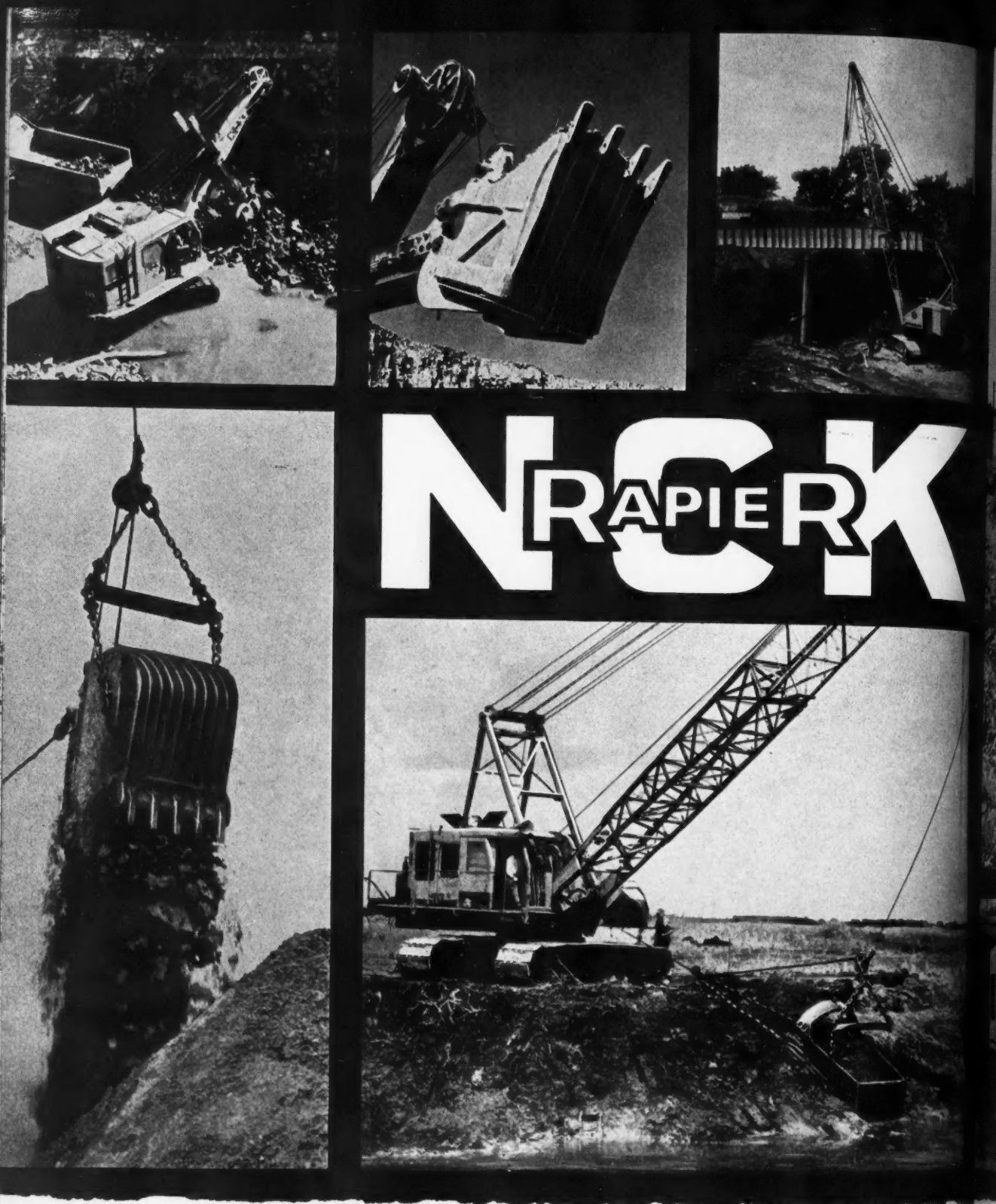
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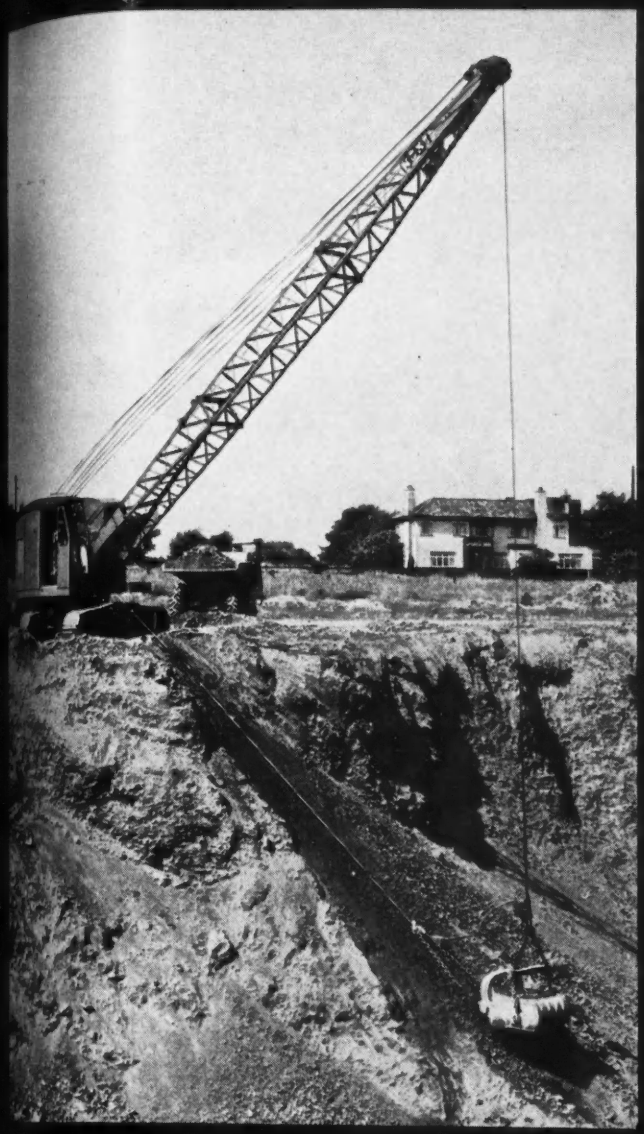
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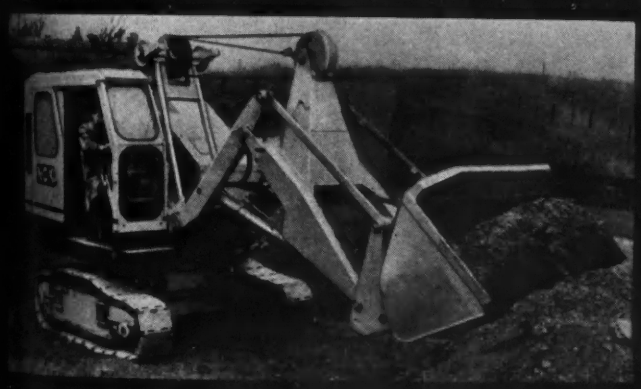
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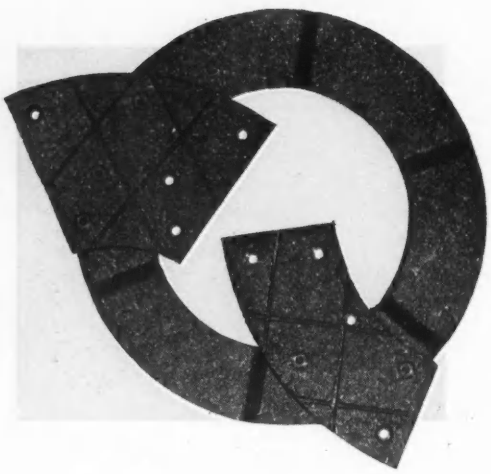
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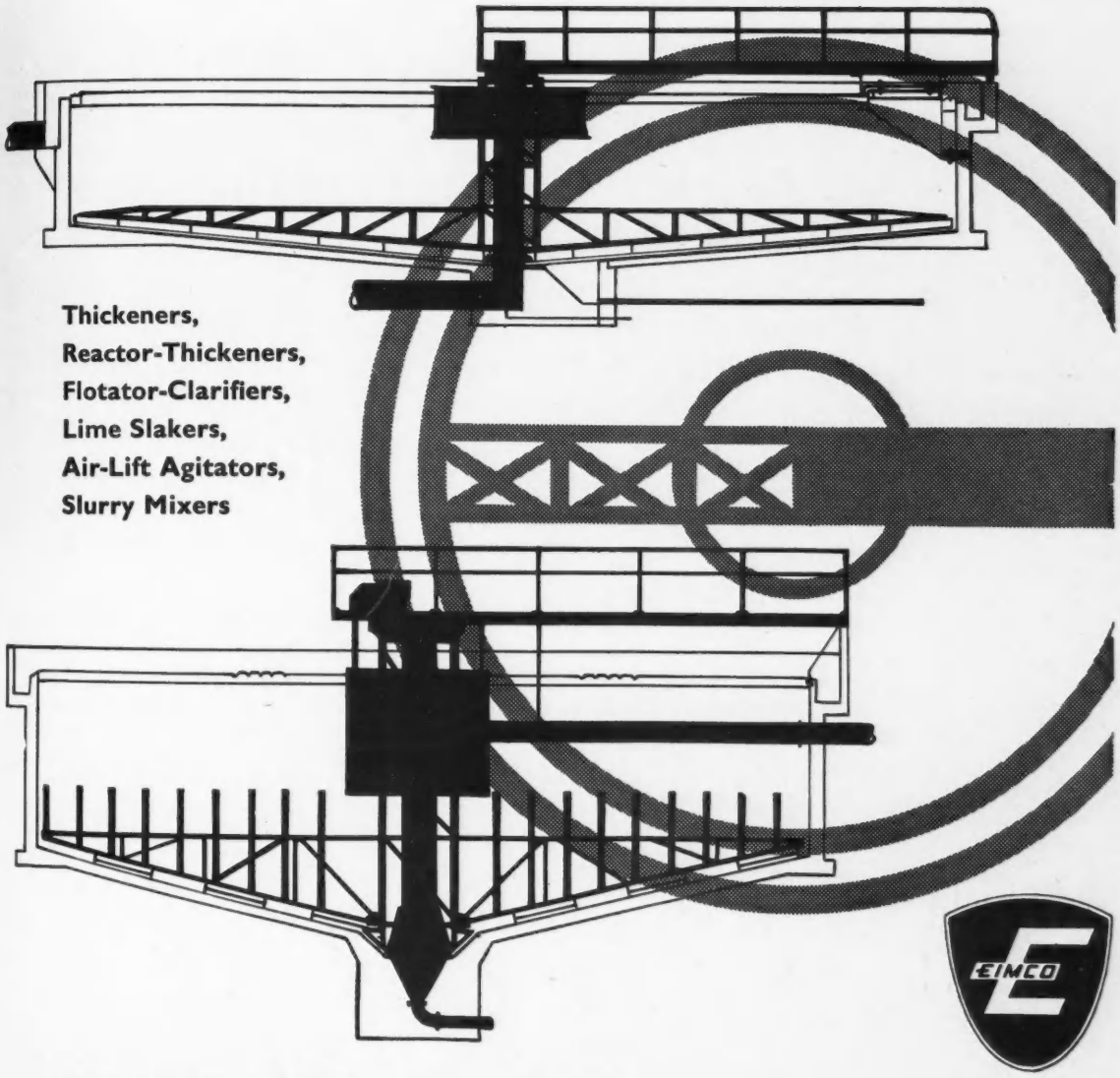
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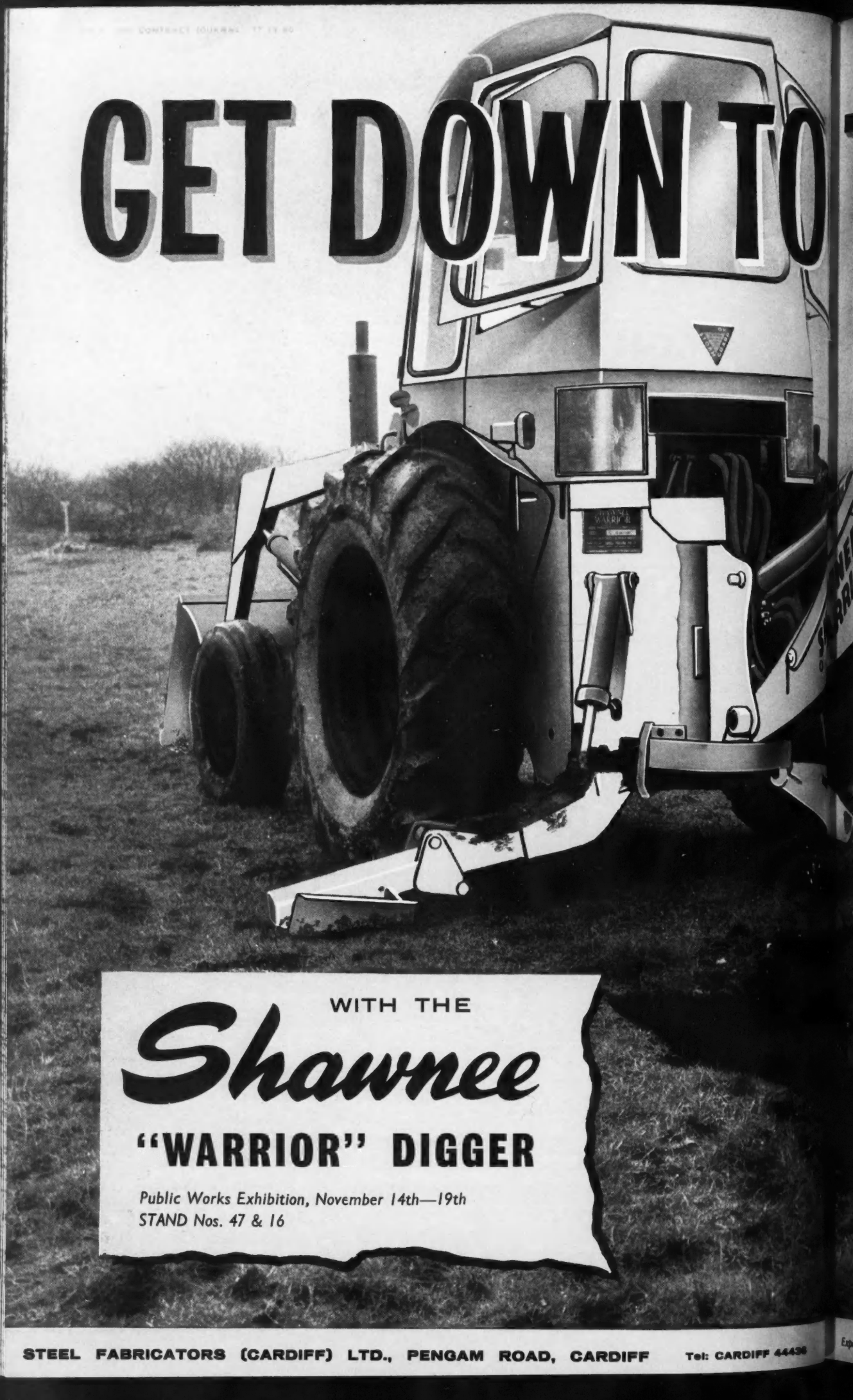
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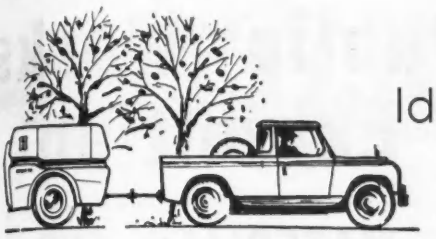
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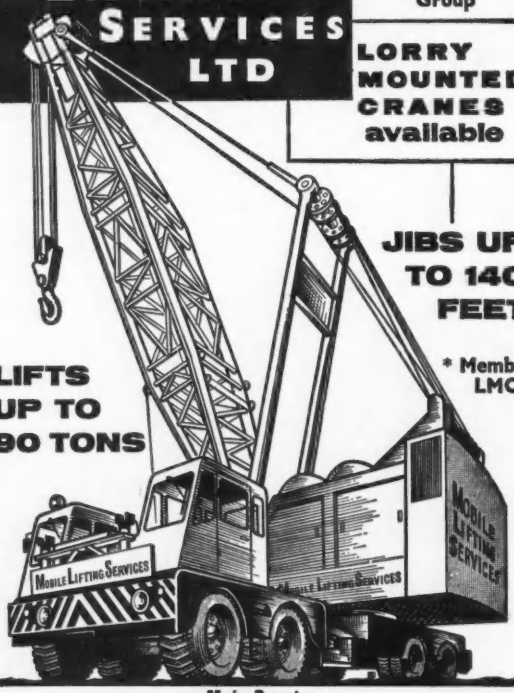
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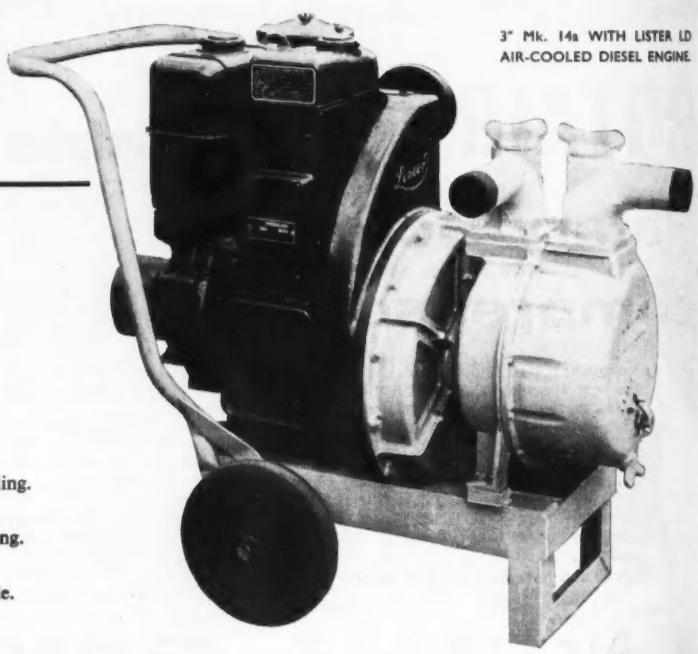
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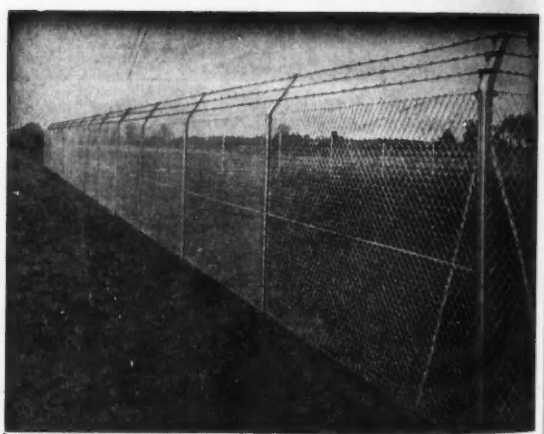
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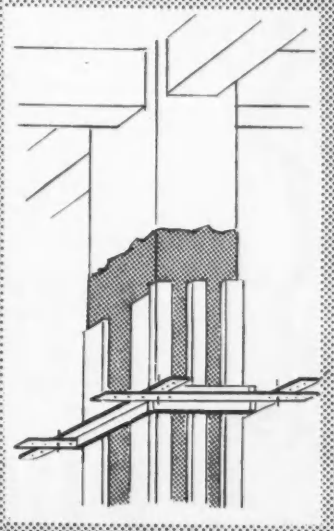
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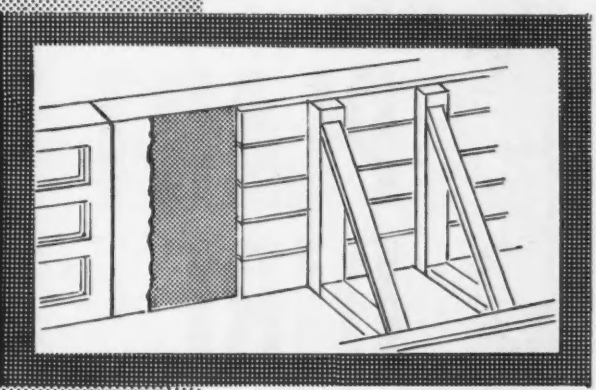
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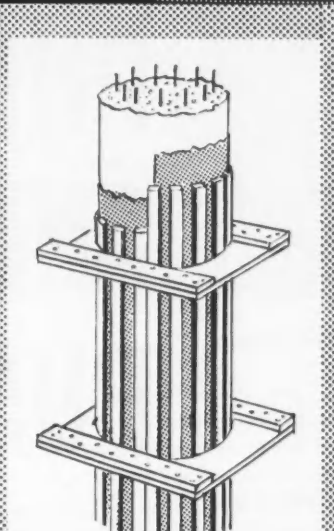
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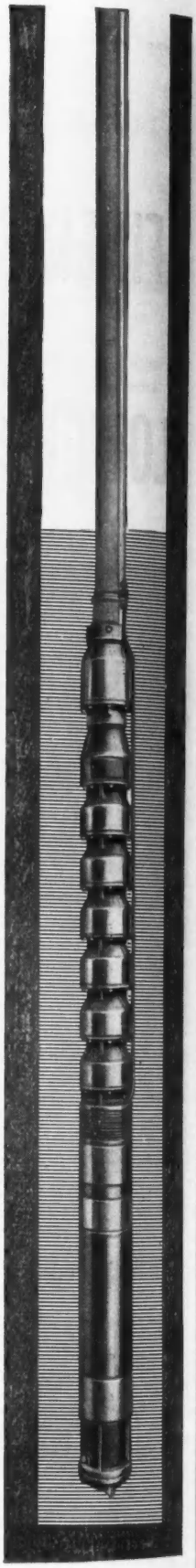
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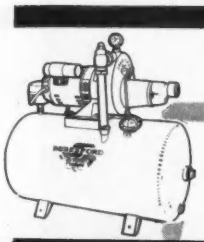


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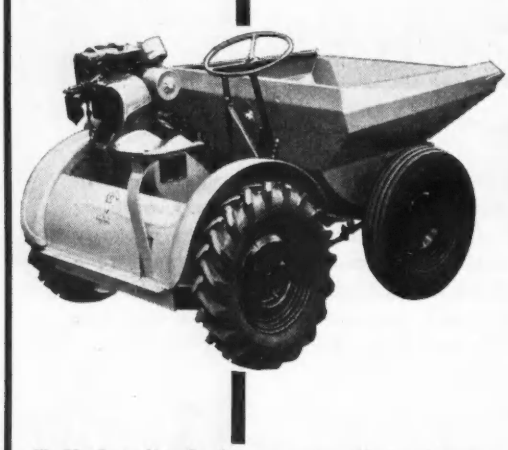
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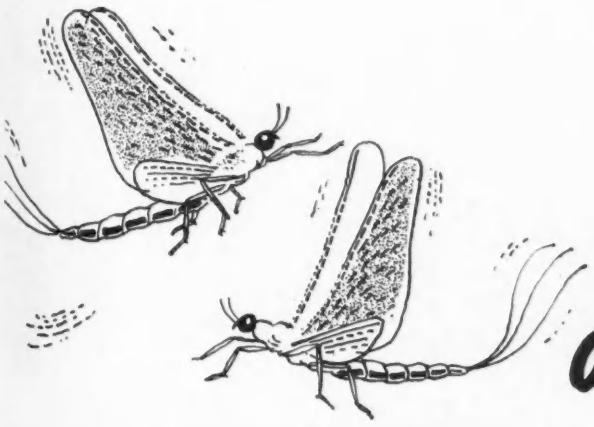
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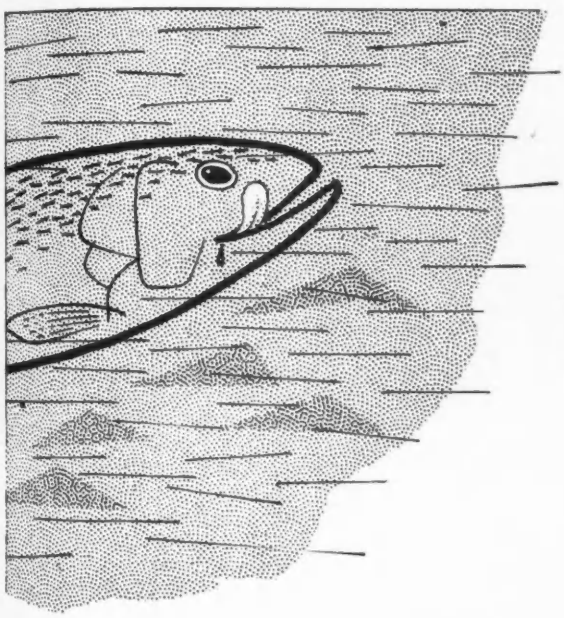
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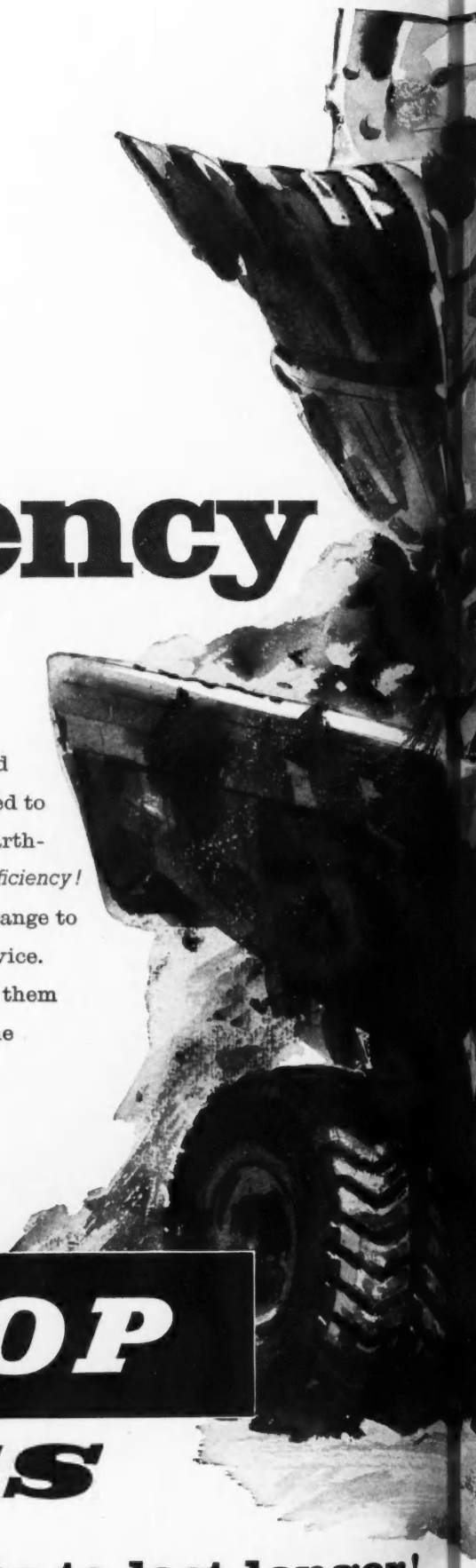
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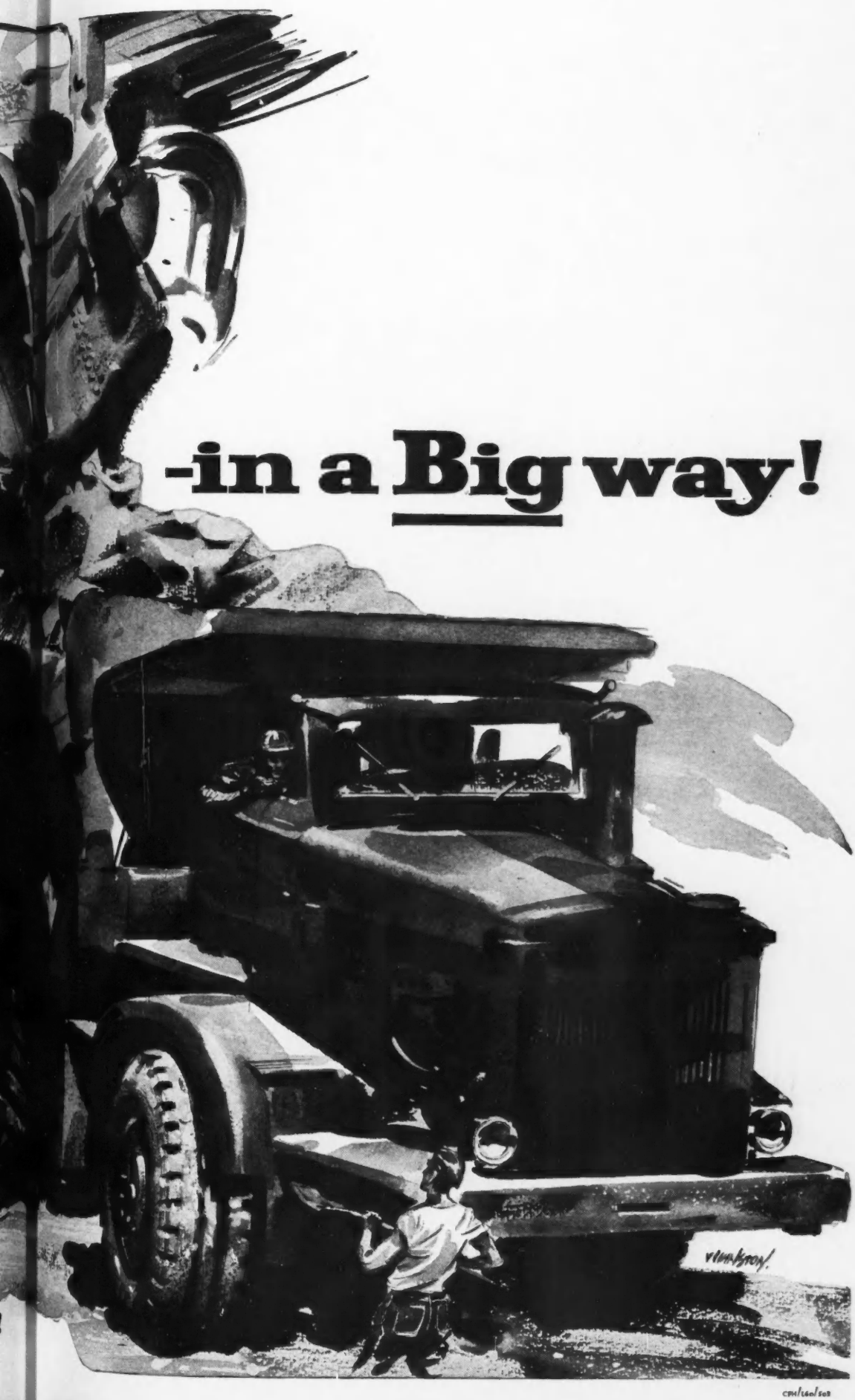


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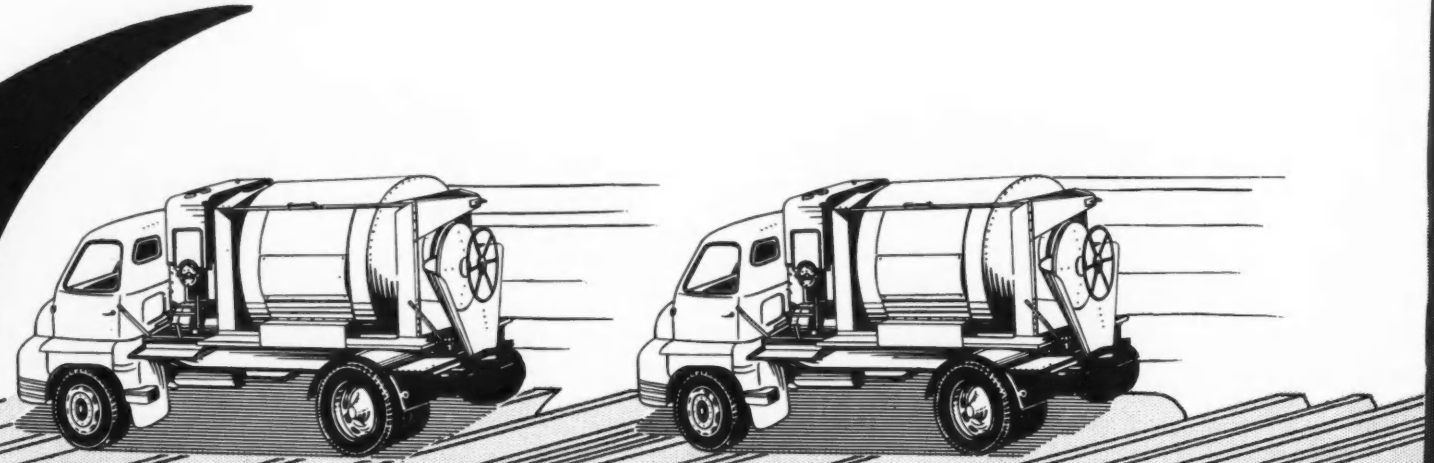
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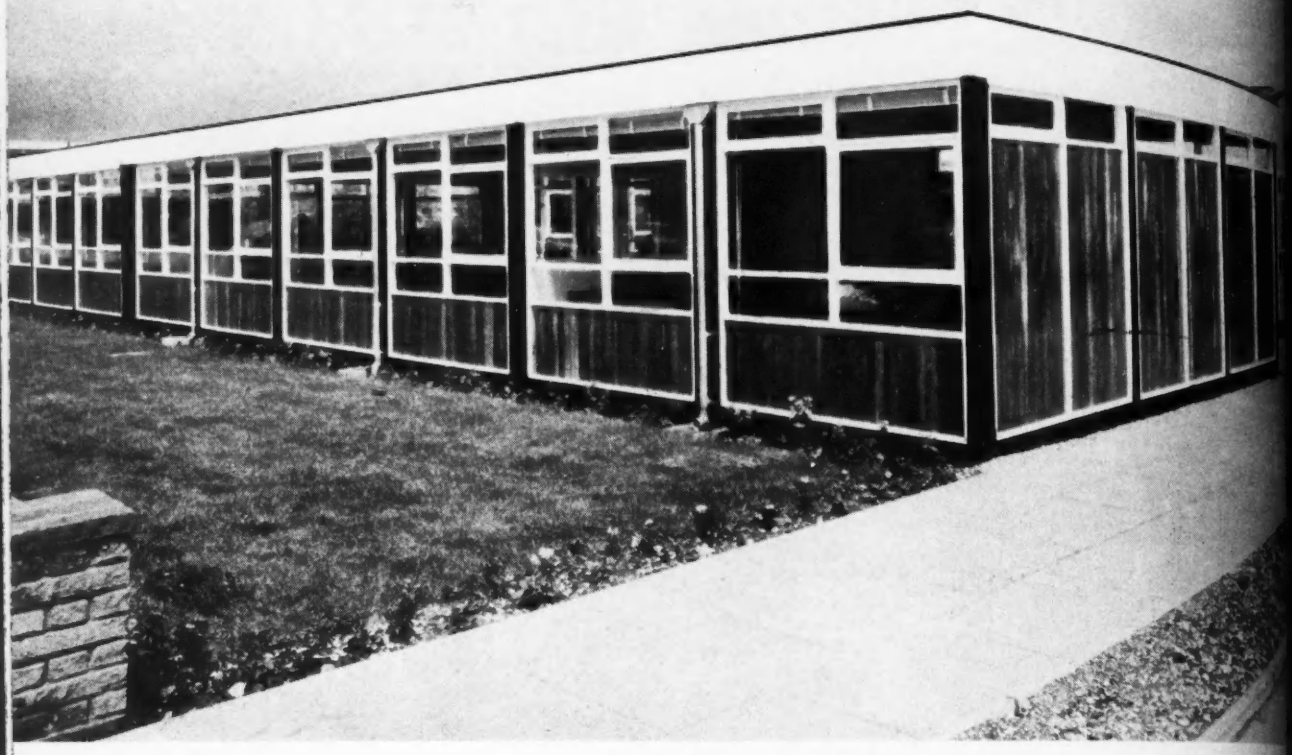
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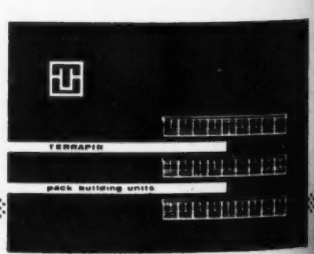
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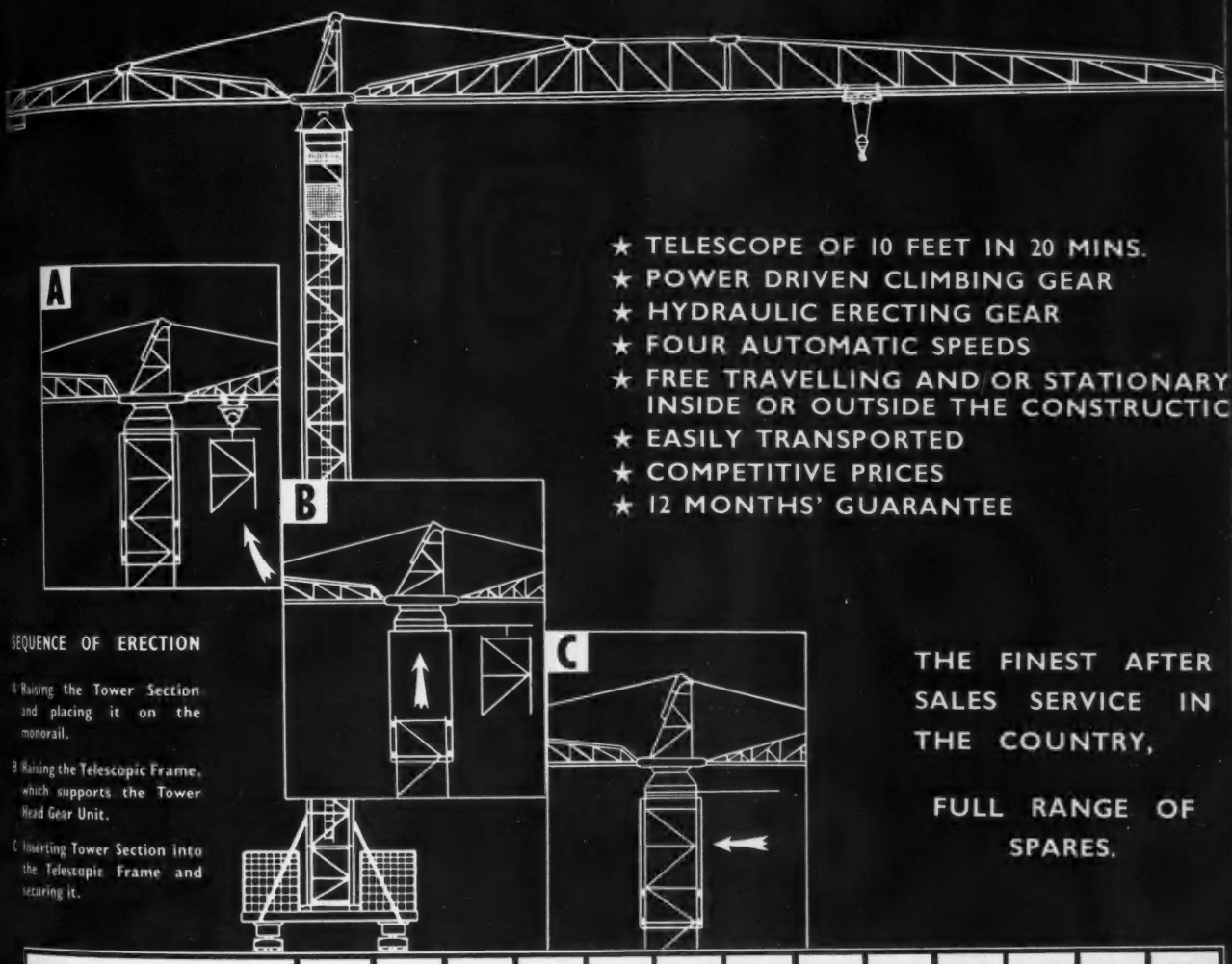
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Maximum jib radius	50 ft.	60 ft.	66 ft.	82 ft.	82 ft.	92 ft.	82 ft.	99 ft.	82 ft.	99 ft.	82 ft.	99 ft.	134 ft.
S.W.L. at maximum radius	12 cwt.	12 cwt.	15 cwt.	15 cwt.	15 cwt.	20 cwt.	25 cwt.	24 cwt.	30 cwt.	30 cwt.	40 cwt.	40 cwt.	60 cwt.
Maximum S.W.L.	1½ ton	1½ ton	1½ ton	2 ton	2 ton	3 ton	3 ton	3 ton	5 ton	6 ton	6 ton	6 ton	10 ton
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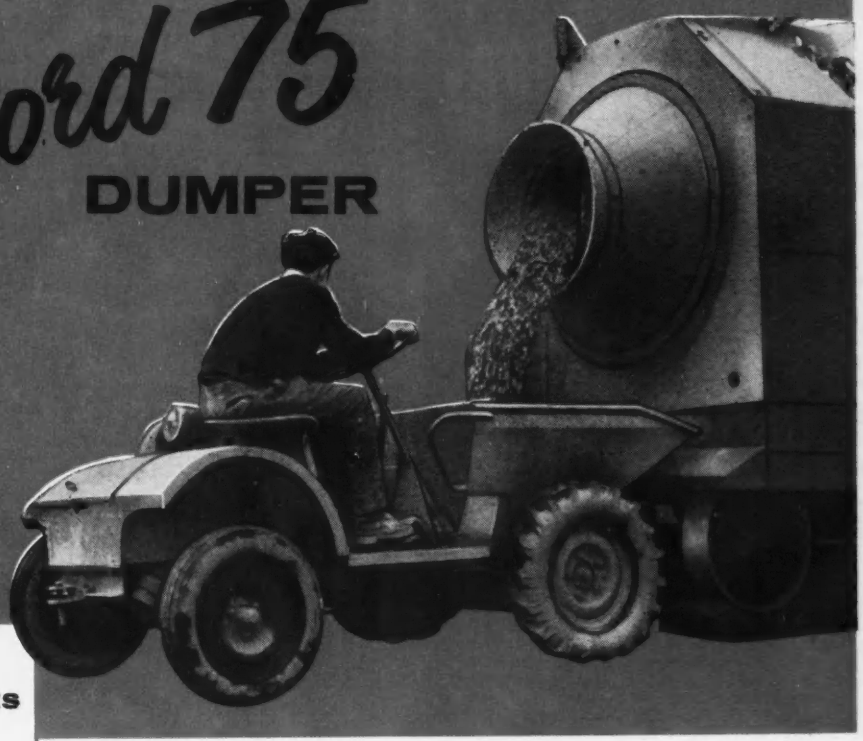
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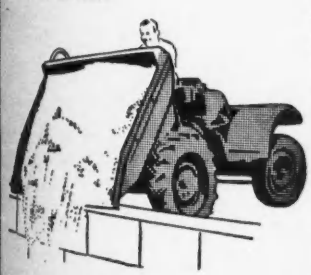
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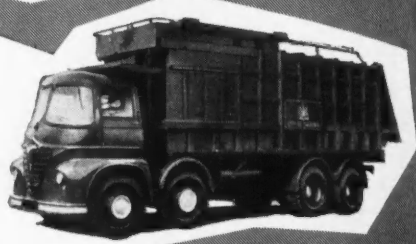
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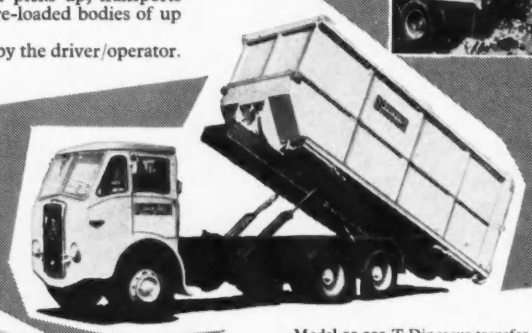
DB. 24-CA.30 self-loading Dumpmaster mounted on Foden 6-wheeled chassis.



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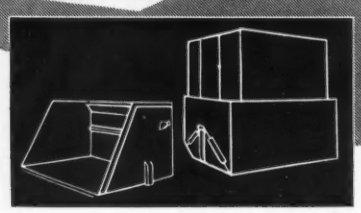


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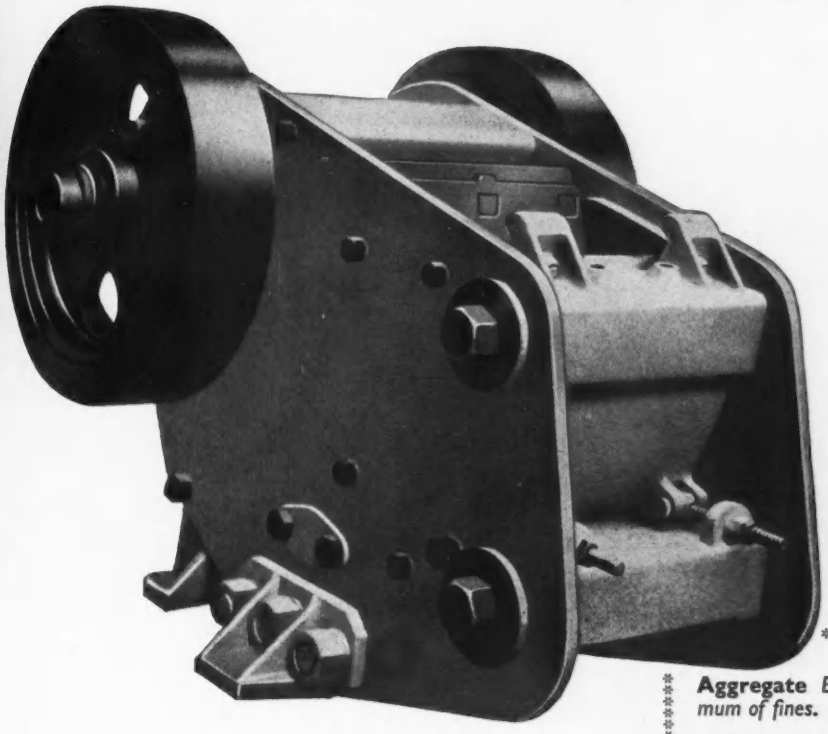
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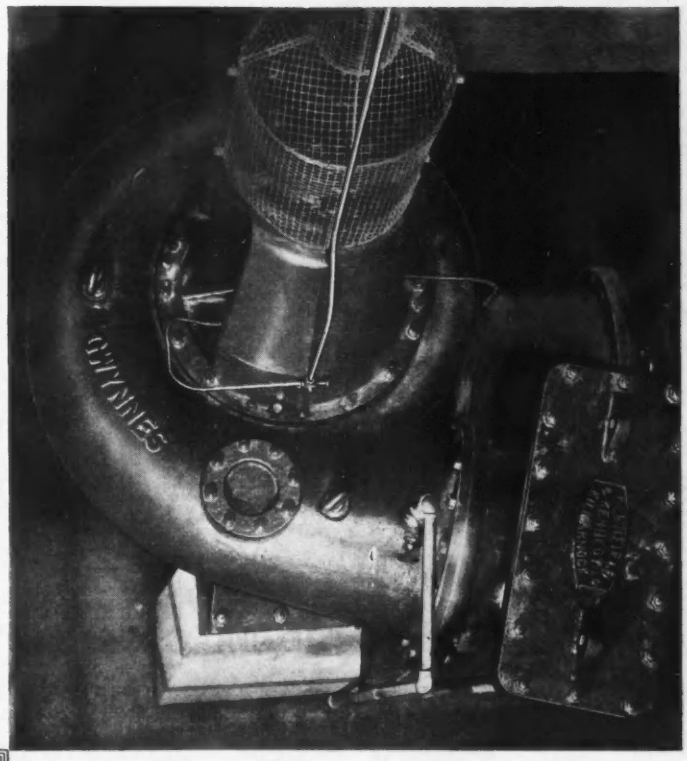
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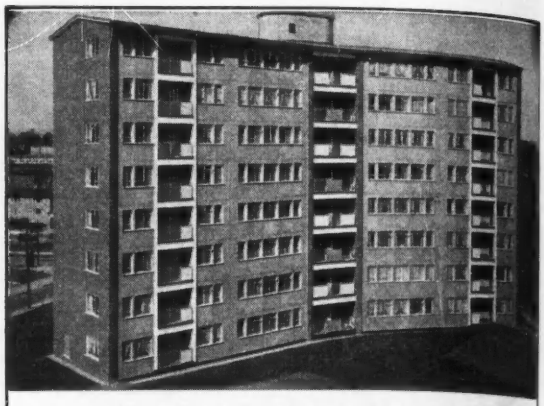


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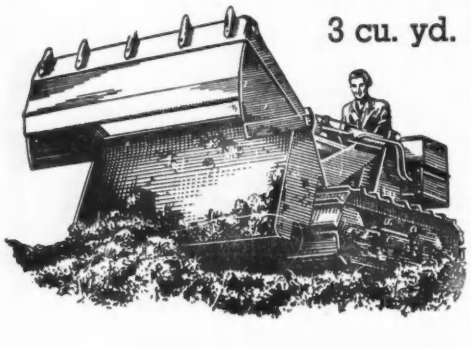
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POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)

RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates building sand, path gravel, hoggin, etc.

WHEATSBURY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading. (Tel.: Theale 373.)

BRECKNOCKSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

BUCKINGHAMSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

ASPHALTE CARPETS, LTD., 38 Buckingham Palace Road, London, S.W.1. (Tel.: Tate Gallery 4857 or Gerrards Cross 3496.) Manufacturers of all grades of gravel bitumen macadam, gravel asphalt and cold asphalt at Gerrards Cross.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel.: 1026/7.) (See Berkshire.)

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DRINKWATER, W. W. (WILLESDEN), LTD., Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.)

GRUNDON, S. (EWELME), LTD., Ewelme, Oxon (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156). All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HALL AND CO., LTD., Brentford, Middlesex. (Tel.: Isleworth 4455), and Coronation Road, High Wycombe (Tel.: 4360/1) and at Gerrards Cross. Pits at Wraysbury (Middx.), and Ivor (Bucks.).

HARTIGAN, G. F. X., LTD., High Street, Newport Pagnell. (Tel. 126.) Graded and single-sized gravel aggregates to B.S.S. Pits at Newport Pagnell and Broughton, adjoining M.1 flyover.

JAMES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

MARLOW SAND AND GRAVEL CO., LTD., Westhorpe Pit, Little Marlow, Bucks. (Tel.: Marlow 379.)

STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) (See Bedfordshire.)

CAMBRIDGESHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London VIGilant 2530.) (For details, see Leics.)

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts (See London.)

DICKERSON, M. (CONTRACTORS), LTD., Gloucester Street, Cambridge. (Tel.: Cambridge 56973/4.) All grades washed sand and gravel, reject stone, hoggin, clinker, crushed granite, crushed and graded concrete hardcore, brick rubble, ready-mixed concrete (all grades).

MACLAREN BROS. (KENNETT), LTD., gravel, tarred and bituminous, gravel asphalt, washed sand and gravel, all to B.S. Specifications. Delivered to any site. Station Rd., Kennett, Cambs. (Tel.: Kentford 333/4.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway St. Ives, Hunts (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel.: Cambridge 59966, 53969, 50353 (night).) Supplier, at keenest rates, of "Finest Quality Only" all grades washed sand and gravel, reject stone, hoggin, clinker, ashes, brick rubble, pitching, hardcore and granite chippings. All to B.S. Specifications. Delivered to any site in East Anglia.

WELFORD GRAVELS, LTD., Head Office Goldington, Bedford. (Tel 4587/8/9.) (See Bedfordshire.)

CARDIGANSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

CHESHIRE

BUCKTON QUARRY broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Pennant End Quarry, Whaley Bridge (Tel. Whaley Bridge 139.) Washed sand and gravel.

CAWOOD WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam all grades

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel. Llanarmon-yn-Ial 43.) Hard broken limestone, dry and coated, to B.S.S. Inquiries to registered office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel. Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day. Any quantity per day. Immediate delivery ex stock.

DUNNING AND SON, LTD. (See Shropshire.)

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel. Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel. Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO. LTD., Cheadle, Stoke-on-Trent (Tel. Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester 21. (Tel.: Chorlton 2274/5.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., 7 Picton Road, Liverpool 15. (Tel.: Sefton Park 7261.) All sizes and gradings of crushed granite aggregate from our Collingwood Dock (Liverpool) Depot. Any quantity per day. Immediate delivery ex stock.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel. Hales 261/2/3.) (See Staffordshire for details.)

TRENTHAM GRAVEL CO. LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel. Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity 2,000 tons per day.

WARDLOW LIMESTONE, LTD., Cauldon Low, N. Staffs. (Tel.: Oakamoor 366.) (For details, see Staffs.)

WILLIAMS, C. F., LTD., Bishop Street Sand Quarry, Turncroft Lane, Stockport. (Tel. Stockport 7096.) Building sand and concrete sand. Bulk sand and gravel filling a speciality.

CORNWALL

PENTEWAN DOCK AND CONCRETE CO., LTD., Pentewan Works, near St. Austell. (Tel.: Mevagissey 333/6.) Gwithian Works, near Hayle. Pure silica gravel and grit, concreting building, plastering and asphalting sands, elvan and granite aggregates all sizes.

CUMBERLAND

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

ESK MANUFACTURING CO., LTD., Dalston Road, Carlisle, Cumberland. (Tel. Carlisle 2-4941.) All grades washed, crushed gravel and concreting sand to B.S. Specification. Precast concrete products and partition blocks. Sand lime coloured facing and common bricks. Ex works or delivered.

DENBIGHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

DERBYSHIRE

BALLIDON QUARRIES LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

HILTON GRAVEL, LTD., Hilton, Derby. (Tel.: Etwall 422.) Also at Mercaston. (Tel.: Brailsford 316.) And at Willington. (Tel.: Repton 3215.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

DERBYSHIRE

KEVIN LIME CO., LTD., Oakamoor, Staffs. (Tel.: Oakamoor 385-386.) Clean graded dry limestone, all to B.S.S. sizes. Output 1,000 tons per day.

SALISBURY AND WOOD, LTD., Matlock (Tel. 272/273). Limestone and granite, dry or coated gravel and sand; kerbs, slabs, blocks, posts, reconstructed and natural stone; lime and ground limestone. Lightweight aggregates, ashes, red shale.

WARDLOW LIMESTONE, LTD., Cauldon Low, N. Staffs. (Tel.: Oakamoor 366.) (For details, see Staffs.)

DORSET

BULL BROS., S. AND L., LTD., 126A High Street, Winchester (Tel. 2264). (See Hampshire.)

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) Tarred and bituminous macadam, foundation materials, limestone for all purposes and to all gradings. Portland stone aggregates and Portland capstone aggregates for reconstructed stone. By road and sea.

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., 8 Commercial Road, Parkstone (Tel.: 5379).

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

ESSEX

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341/494.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concreting sand and building sand. Road and water transport.

BAKER, F. AND E., LTD., 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore, ashes and bricks.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BUCBRICKS COMPANY, LTD., Sand and Ballast Pits, Martells, Ardleigh, Colchester. (Tel.: Ardleigh 310.) All grades of washed aggregates, sand, building sand, asphalt, grit. Sterilised dry sand accurately graded to buyers' requirements.

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

FERRIS PITS, LTD., The Limes Garage, Fencepiece Road, Barkingside, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Orsett, near Stanford-le-Hope, and Upminster. All grades of washed aggregates, plastering and building sands supplied and delivered, also hardcore and ashes.

HALL AND CO., LTD., Manor Road, Romford. (Tel.: Romford 42321.) Pits at Aveley, Boreham and Linford, near Grays. Gravel aggregates, concreting, plastering and building sand.

HUNNABLE, F. A., AND SON, LTD., Rayne Road, Braintree, Essex. (Tel. Braintree 151 and 1351.) Graded washed stone, sand to rejects, washed concreting sand and washed soft building sand. Classified sand for asphalt. Ready mixed concrete to all grades. Pits at Braintree, Bocking, Beasley End, Hedingham and Alphamstone.

LEIGH BUILDING SUPPLY CO., LTD., Head Office: 956 London Road, Leigh-on-Sea, Essex. (Tel.: 78264—six lines.) All grades washed materials, building sand, hardcore, ashes, bricks, granite.

PETERS AND BARHAM, LTD., 309 South Street, Romford. (Tel.: Romford 44141—7 lines.) Washed and crushed gravel, all sizes; sand. Pits at Asheldham, Chignall St. James, Dagenham, Great Waltham, North Ockendon, Roxwell, West Thurrock.

READ, P. T., LTD., Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2/3.) High-grade sands, ballast and shingles supplied and delivered; also ready-mixed concrete.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4 and Halstead 2323.) Pits at St. Ives and Gosfield, near Halstead.

STANWAY CONTRACTS, LTD., Upper Edwards Hall Estate, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford (Tel. 4587/8/9). Washed and graded aggregates. Local Office and pits: Tillingham 287.

WIVENHOE SAND, STONE AND GRAVEL CO., LTD., Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High-quality washed aggregates of all grades.

GLOUCESTERSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

COKE, T. F. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Sand, graded gravel aggregates, hardcore, limestone, chippings, tarred and bituminous limestone, concrete blocks, fence posts, etc. etc.

CROMHALL QUARRIES, LTD., Cromhall, Wottonunder-Edge, Glos. (Tel.: Falfield 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.

FLOYD AGAR AND CO., LTD., Sherston, Malmesbury, Wilts. (Tel.: Sherston 237.) Cotswold building stone, hardcore, etc. (Details under Wiltshire.)

GRIFFITHS, A., AND SONS, Churchdown, Gloucester. (Tel.: Churchdown 3135 and 2216.) Pit, quarry and dredger owners. All grades and types aggregate materials.

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel.: 63001.) Gravel aggregates, concreting, plastering and building sand.

Rates for insertion in this GUIDE will be forwarded on application

CONTRACTORS' GUIDE TO AGGREGATES

GLOUCESTERSHIRE

POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)

TAYMAC, LTD., Wootton Bassett, Swindon. (Tel.: Wootton Bassett 391—5 lines.) (See Wiltshire.)

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: Coleford 3158/9.) Tarred and bituminous limestone macadams, asphalt, concrete aggregates, dolomitic media, engineering, facing and common bricks for all purposes. Delivery road or rail.

HAMPSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) Concreting aggregates (reconstituted, pit-mixed, weighbatched to meet any specification); also ballast, hoggin, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, Sway and Totton.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C. AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Baltic Wharf, Marine Parade, Southampton (Tel.: Southampton 21234), and at Portsmouth. Pits at Ringwood, Highbridge and Totton. Gravel aggregate, concreting, plastering and building sand.

HASKINS, G., AND SONS, Queen Street, Emsworth. For washed sands and graded aggregates, path and road gravels, hoggin, clinker, ashes. (Tel.: Emsworth 2271.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

NEW MILTON SAND AND BALLAST CO., Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.

PRIVETT, W. G., AND SONS, LTD., Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggin, ashes, washed and graded filter media, etc.

RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.

WESSEX SAND AND GRAVEL CO., 126 Hillside Avenue, Southampton. (Tel. 56616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggin, building sand, etc.

WRAYSBURY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading, Berks. (Tel.: Theale 373.)

HEREFORDSHIRE

BENGR / AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metalling, pitching stone, hardcore and coated macadam.

CLEE HILL TRANSPORT AND ROLLING CO., LTD., Ludlow, Salop (Cleehillstone 284). (See Shrops.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) All grades of tarred and bituminous macadam, roadstone, chippings and concrete aggregates, etc.

OLD RADNOR TRADING CO., LTD., Kington. (Tel. 11.) Granite and limestone aggregates, coated macadam, concrete products.

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos (Tel. 3158/9.) (See Gloucestershire.)

HERTFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Broxbourne pit. (Tel.: Hoddesdon 2456.) Producers and distributors of all grades of washed aggregates.

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.

HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage (Tel.: 775), and at Hatfield. Gravel aggregates, concreting, plastering and building sand.

HARTIGAN, G. F. X., LTD. (See Buckinghamshire.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel. 59966, 53969, 50353 (night).) (See Cambs.)

WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at: Hemel Hempstead, Watford, West Hyde, Rickmansworth. Concrete aggregates, hoggin, building sand.

HUNTINGDONSHIRE

ARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden (2354/5). (See Northants.)

GRAVEL PRODUCTS (HUNTS.), LTD., Little Paxton, St. Neots, Hunts. (Tel.: St. Neots 308.) Pits at Little Paxton, St. Neots, Hunts.; and Blunham, Beds.

NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

HUNTINGDONSHIRE

WEBB, G., CAMBRIDGE, 35 Magrath Ave., Cambridge. (Tel. 59966, 53969, 50353 (night).) (See Cambs.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

KENT

BRASTED SAND PITS, Brasted, Kent. (Tel. 586). London office: 10A Ellery Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes, etc.

BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hoggin, hardcore, clinker, chalk, etc.

CLUBB, J., LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.

DIAMOND TREAD CO. (1938), LTD., Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarry owners: tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines.)

DIAMOND TREAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarry owners: tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Malling 3444.)

HALL AND CO., LTD., Canning Street, Maidstone. (Tel.: Maidstone 51051); and at Folkestone and Hayes. Pits at Lunsford, near Larkfield. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., Station Road, Paddock Wood, Kent (Tel. 385). (See Sussex.)

TILBURY CONTRACTING AND DREDGING CO., LTD., Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tarred, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

BUCKTON QUARRY. Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, nr. Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates; pitching stone.

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD. (See Shropshire.)

HARTLEY, JOHN W., LTD., Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all construction purposes.

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock.
Liverpool and Preston Depots:
Office: 7 Picton Road, Liverpool, 15.
(Tel.: Sefton Park 7261.)
Manchester Depot:
Office: Cornbrook Road, Manchester, 15.
(Tel.: Trafford Park 3830.)

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) All sizes. (See Staffs. for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice-washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford (Tel. 4587/8/9). Local Offices and pits: Chorley 3923 and Wigan 82039.

WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex stock.

X.L. GRANITE (INGLETON), LTD., Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London Office—VIGilant 2530.) Best Leicestershire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt rail/road delivery.

CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 561/2/3.) Granite aggregates to B.S.S. All sizes. Tarred and bituminous granite, concrete slabs and kerbs. Transit-mixed concrete.

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester (Tel. 56682). Quarries at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)

HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby (Tel.: Shardlow 266.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details see Nottinghamshire.)

MOUNTSORREL GRANITE CO., LTD., 21 New Walk, Leicester (Tel. 56682). Quarries at Mountsorrel, near Loughborough. 3/4in. pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)

LEICESTERSHIRE

WANLIP GRAVELS, LTD., Wanlip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2327 and 2797.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford (Tel. 4587/8/9). (See Northamptonshire.)

WREAKE VALLEY GRAVELS CO., LTD., Melton Mowbray. (Tel.: Pits—Rotherby 205 or head office Melton 2488.) All grades washed aggregates and sand.

LINCOLNSHIRE

CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, hoggin. Ex quarries or delivered.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

EAST MIDLANDS BUILDERS' SUPPLY CO., 21 Castle-dyke West, Barton-on-Humber, Lincs. (Tel.: Barton 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.

GIBBONS, F. B., AND SONS, LTD., Registered Office: Welby House, Market Deeping, near Peterborough. (Tel.: Market Deeping 3321/2383.) Pits at Langtoft, near Peterborough. (Tel.: Market Deeping 2210.) All grades washed sand and gravel aggregates.

HARTSHOLME GRAVEL AND SAND CO., Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HURDISS, J. W., LTD., Victoria Street, Grimsby (Tel.: Grimsby 3657) and Caistor (Tel.: Caistor, Lincs. 281). Building, plastering, concreting sand, also gravel, ballast, hoggin and roadmaking materials.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Ropsley, all grades of hardcore and broken stone. (See also Northants.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For "Supercrete" ready mixed concrete, 'phone Market Deeping 3132.

TRENTFORD GRAVELS, LTD., Head Office: Deansgreen, Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD) LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BUCBRICKS COMPANY, LTD., 57 Piazza Chambers, Covent Garden, London, W.C.2. (Tel.: Covent Garden 0534.) All grades of washed aggregates, sand, building sand, asphalt, grit. Sterilised dry sand accurately graded to buyers' requirements.

COX, H., AND SONS, LTD.,
33 Southampton Way,
Camberwell, S.E.5.
(Tel.: Rodney 2215—3 lines.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: HAMpstead 8044-8.) Granite limestone or slag, coated or dry, all sizes and pitching, granite kerb and setts, felspar quartz and other minerals by road or rail, or ex London stock.

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)

DRINKWATER, W. W. (WILLESDEN), LTD., Dudden Hill Lane, Willesden, N.W.10 (Tel.: GLAdstone 6400/5.) Pits: Rush Green, Denham, Bucks (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

GREENHAM SAND AND BALLAST CO., LTD., Chertsey Road, Feltham. (Tel.: Feltham 2285/7.) Pits at Hounslow, Feltham and Staines. Concrete aggregates, plastering and building sand.

HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at East Dulwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering and building sand.

HARTIGAN, G. F. X., LTD. Washed sharp sand to B.S.S. 882. (See Buckinghamshire.)

KEEN, W. J., AND SONS, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballast, shingle and hardcore supplied.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO. Admaston, Wellington (Tel 961), Salop.

MIDDLESEX

CROSS, GEO. C., AND CO., LTD., Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Concrete aggregates, hardcore, excavations, demolitions.

DRINKWATER, W. W. (WILLESDEN), LTD., Staines Rd., Hounslow Hth., Middx. (Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

GREENHAM SAND AND BALLAST CO., LTD., Chertsey Road, Feltham. (Tel.: Feltham 2285/7.) Pits at Hounslow, Feltham and Staines. Concrete aggregates, plastering and building sand.

GRUNDON, S., 79 Harlington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 4156.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.

HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at Ashford and Brentford Pit at Bedfont, near Feltham. Gravel aggregates, concreting, plastering and building sand.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

CONTRACTORS' GUIDE TO AGGREGATES

MIDDLESEX

ROAD, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready-mixed concrete. Pits: Edmonton Gravel Pit, Montagu Road, N.9 (Tel.: Shoreditch 9128/9), and Fairlop Airfield, Forest Road, Ilford (Tel. Hainault 6111/2)

STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

THAMES SAND AND GRAVEL CO., LTD., Fordbridge Road, Sheppperton. (Tel.: Walton-on-Thames 23616.) Gravel aggregates, concreting, plastering and building sand

WRAYSBURY SAND AND GRAVEL CO., LTD. Pits at Wraysbury. (Tel.: Wraysbury 164.) Gravel aggregates, concreting, plastering and building sand.

MID-WALES

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Kington 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

MONMOUTHSHIRE

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel 3032), and Phoenix Works, Cardiff (Cardiff 63311), for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media filling etc., kerbs and pavings

MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 38 Chepstow Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metalling, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel 3158/9). (See Gloucestershire.)

MONTGOMERYSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

JOHNSON, P. C. H., LTD., Station Road, Terrington St. Clement, near King's Lynn. (Tel.: Terrington St. Clement 248.) Washed and screened gravel, roadstone, washed sharp and fine sands

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4 and Coney Weston 12.) Pits at St. Ives and Knettishall, near Thetford.

SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at Snetterton. Concrete aggregates, building sand

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 33243/4.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

BILLING GRAVEL CO., LTD., Station Road, Billing, Northampton. (Tel.: Cogenhoe 219.) London Office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)

BRAYBROOK, E. W., LTD., Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S.S., building sand, hardcore.

BOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone roadstone, hardcore, broken stone, ashes, sand, gravel and hoggin. Immediate delivery throughout Northamptonshire.

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

MACKANESS, A. J., LTD., Ransome Road, Northampton. (Tel.: Northampton 589.) Producers of all grades of washed aggregates. Building sand. Mixmortar (lime/sand mortar). Prompt deliveries.

MENE BARGE AND LIGHTER CO., LTD., Market Deeping, Peterborough (Tel. 5534/5), and Ship Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

NORTHAMPTONSHIRE

NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Eight quarries supplying all grades of hard-core and broken stone. Also Wetmix at Yarwell, Wansford. All grades gravel and sand at Maxey.

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

STORTON, F. E., LTD., Weedon Road, Northampton. (Tel.: Northampton 3358.) Producers of washed gravel and sand to B.S.S.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Fortly Ford. (Tel.: Welford 256.)

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Yale 43.) Hard, broken limestone, dry and coated to B.S.S. Inquiries to Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

ENSTON BROS., Llwyn Isaf Quarry, Clynnog Fawr, Caernarvon. (Tel.: Clynnon Fawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire (Llanrwst 38.)

PENMAENMAWR AND WELSH GRANITE CO., LTD. Quarries at Penmaenmawr (Tel 2256/8), and at Trevor (Tel.: Clynnogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.

RUTHIN AND DENBIGH TARMACADAM CO., LTD. (a member of the Lunt, Comley and Pitt Group), Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., Gazette Buildings, 168 Corporation Street, Birmingham (Tel.: Central 7408), and Lunt Bros., Ltd., Stourbridge (Tel. 5201—8 lines).

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

NOTTINGHAMSHIRE

AIZLEWOOD, DOUGLAS E., Bow Bridge, Rotherham. (Tel.: Rotherham 2622.) Crushed and graded limestone; all grades of washed gravel and sands.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel: could be collected ex quarry or delivered.

GUNTHORPE GRAVELS (1958), LTD. (Tel.: Nottingham 77357; and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.S.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme, Pierrepont Colwick, Bleasby and Newark. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Plant capacity 8,000 tons per day.

NEWARK GRAVEL AND CONCRETE CO., LTD., Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

NORTH NOTTS. GRAVEL CO., LTD., Bellmoor, Retford, Notts. (See Yorkshire.)

SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

OXFORDSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel. Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGilant 2530.) (For details, see Leics.)

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

CURTIS, J., AND SONS, LTD., Botley Works, Oxford (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DIX, G. H., AND SON, LTD., Freeland, Oxon. (Tel.: Freeland 234.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

GRUNDON, S., (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggin, broken stone, building sand

HAINES, A. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone. Cotswold building and walling stone

SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts (Tel.: Berkhamsted 1208/9.) Roadstone, Cotswold building and walling stone

WRAYSBURY SAND AND GRAVEL CO., LTD., Thesle Reading, Berks. (Tel.: Theale 373.)

RADNORSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

CLEE HILL TRANSPORT AND ROLLING CO., LTD., Ludlow Salop (Cleehillstone 284). (See Shrops.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Tel.: Kington 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

RUTLAND

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop.: Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

SCOTLAND

KEIR AND CAWDER, LTD., Kirkintilloch Road, Bishopbriggs. (Tel.: Bishopbriggs 3200.) All grades washed sand and gravel aggregates.

SHROPSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output: reliable deliveries.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

CLEE HILL TRANSPORT AND ROLLING CO., LTD., Ludlow, Salop. (Tel.: Cleehillstone 284.) Granite stone, tarmac, chippings, filter media, setts, limestone, crushed and walling stone, gravel, sand, hardcore and ashes.

DORRINGTON SAND AND GRAVEL QUARRIES, near Shrewsbury. (Tel.: Dorrington 276.) Supplies of ready mixed concrete, building sand, washed sand, washed and crushed gravel.

DUNNING AND SON, LTD., Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kingston. (Tel 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for dets.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day

SOMERSET

ASHAM QUARRY CO., LTD., Chantry, Frome. (Tel.: Nunney 351.) All sizes limestone block, broken and aggregates. Tarred and bituminous macadam to B.S. Ex quarry and delivered.

DANGERFIELD, F. J., AND CO., LTD., 216A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel 63001.) Gravel aggregates, concreting, plastering and building sand.

WAINWRIGHT, JOHN, AND CO., LTD., Shepton Mallet (Tel.: Shepton Mallet 2366/7.) All sizes basalt, coated basalt, concrete aggregates, filtering media, building blocks and slabs.

SOUTH SCOTLAND

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

SOUTH WALES

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032), and Phoenix Works, Cardiff (Cardiff 63311), for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media filling, etc., kerbs and pavings

PENMAENMAWR AND WELSH GRANITE CO., LTD., 18 Quay Street, Cardiff. (Tel.: 20646/7.) All sizes and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite aggregates from Ewenny Quarry, Bridgend. Tel.: Bridgend 3786.) Coated stone also available.

SESSIONS AND SONS, LTD., West Dock, Cardiff. Producers of coarse and fine aggregate, dredged and graded to British Standards. Branches Newport and Swansea. (Also Gloucester and Hereford.)

SOUTH WALES SAND AND GRAVEL CO., LTD., Head Office: P.O. Box 8, Beaufort Buildings, Swansea. (Tel. Swansea 53071.) Sand and gravel merchants, builders' merchants, Pennant Quarry owners slag, hardcore, ashes, filling, graded clinker filter media Depots: Cardiff, Newport, Barry, Port Talbot, Briton Ferry, Swansea, Llanelly.

STAFFORDSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire (Tel. Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output: reliable deliveries.

CONTRACTORS' GUIDE TO AGGREGATES

STAFFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 12 5/7/8, or London: VIGilant 2530.) (For details, see Leics.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD., Wood End Gravel Pits, Hednesford. (Tel.: Hednesford 302/325.) Washed sand and gravel. All to B.S.S. High-quality road-stone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)

HILTON GRAVEL, LTD., Cheadle, Staffs. (Tel. Tean 241.) Also at Longton, Stoke-on-Trent (Tel.: Longton 32196) and Stretton, Burton-on-Trent (Tel.: Burton 6061).

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton-Manchester 21 (Tel. Chorlton 2274/5.)

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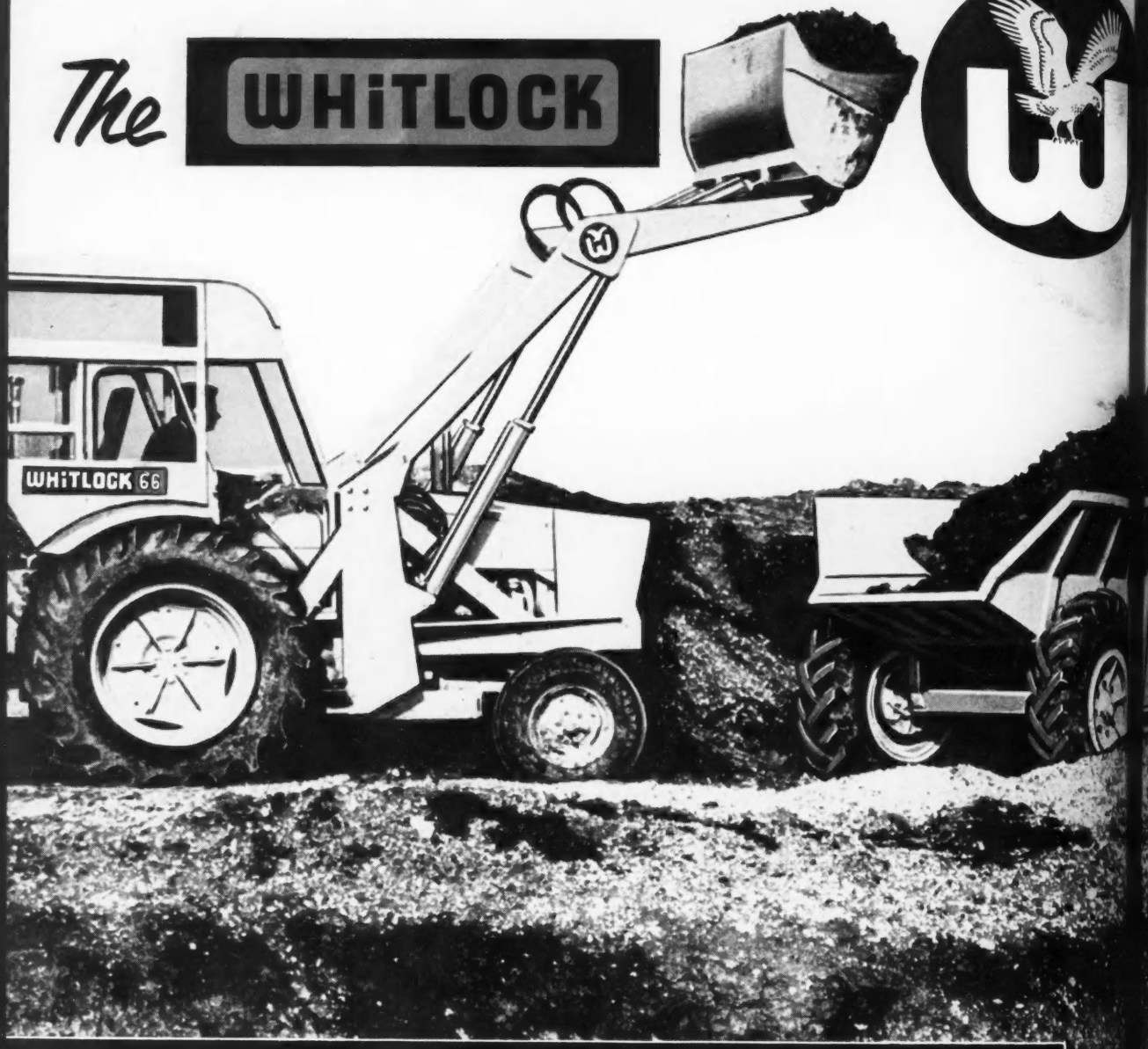
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